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OM protein - protein search, using sw model

Run on: March 10, 2003, 18:27:41 ; Search time 21 Seconds  
(without alignments)  
1094.416 Million cell updates/sec

Title: US-09-926-799-1

Perfect score: 2896

Sequence: 1 MMASKDPTNMDGTSGAGQ.....YOLKPVGTAGPACRLGIRRS 545

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 188354 seqs, 42170167 residues

Total number of hits satisfying chosen parameters: 188354

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	106	3.7	1302	12 US-10-000-864-2	Sequence 2, Appli
2	106	3.7	1493	10 US-09-858-754-3	Sequence 3, Appli
3	106	3.7	1493	12 US-10-000-864-8	Sequence 8, Appli
4	103.5	3.6	1170	12 US-10-135-687-2	Sequence 2, Appli
5	103.5	3.6	1210	10 US-09-860-352A-2	Sequence 2, Appli
6	100.5	3.5	1070	10 US-09-735-367B-6	Sequence 6, Appli
7	100	3.5	828	9 US-09-738-626-5038	Sequence 5038, Ap
8	100	3.5	1601	10 US-09-862-027-40	Sequence 40, Appli
9	100	3.5	2005	10 US-09-735-367B-3	Sequence 3, Appli
10	100	3.5	2063	10 US-09-735-367B-2	Sequence 2, Appli
11	98	3.4	1209	12 US-10-135-687-4	Sequence 4, Appli
12	98	3.4	1493	10 US-09-858-754-4	Sequence 63, Appli
13	97	3.3	956	9 US-10-121-032-63	Sequence 63, Appli
14	96	3.3	1344	9 US-09-738-626-6888	Sequence 6888, Ap
15	95.5	3.3	678	9 US-09-712-363-158	Sequence 158, App
16	95	3.3	504	9 US-09-738-626-3680	Sequence 3680, Ap
17	94.5	3.3	662	10 US-09-924-358-11	Sequence 11, Appli
18	94	3.2	1477	9 US-10-092-880-4	Sequence 4, Appli
19	93.5	3.2	498	10 US-09-925-297-673	Sequence 673, App

# ALIGNMENTS

## RESULT 1

US-10-000-864-2  
; Sequence 2, Application US/10000864  
; Patent No. US20020146798A1

; GENERAL INFORMATION:  
; APPLICANT: CADUS PHARMACEUTICAL CORPORATION  
; TITLE OF INVENTION: HUMAN MEK PROTEIN AND NUCLEIC ACID MOLECULES  
; FILE REFERENCE: CPI-085CPC  
; CURRENT APPLICATION NUMBER: US/10/000,864  
; CURRENT FILING DATE: 2001-10-31  
; EARLIER APPLICATION NUMBER: 09/423,890  
; EARLIER FILING DATE: 2000-06-03  
; EARLIER APPLICATION NUMBER: PCT/US99/05556  
; EARLIER FILING DATE: 1999-03-15  
; EARLIER APPLICATION NUMBER: USSN 60/078,153  
; EARLIER FILING DATE: 1998-03-16  
; EARLIER APPLICATION NUMBER: USSN 60/099,165  
; EARLIER FILING DATE: 1998-09-04  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 1302  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-000-864-2

Query Match 3.7%; Score 106; DB 12; Length 1302;

Best Local Similarity 18.7%; Pred. No. 1.2;

Matches 83; Conservative 72; Mismatches 165; Indels 124; Gaps 20;

QY	1	MMASKDPTNMDGTSGAGOLVPEANTAPISMEPVAG-AATAAATAGVNMIDPMLNN	59
DB	400	LILANGESTGNSGGSG-SLS--SAGAAAGSSQPSISGDVVEACCSVLSIVCADD-VYKV	455
QY	60	YVOA---PQCEETISFNPTPGD-ILFDLQLGPHLNPFL-----SHLAQMY	100
DB	456	YVAALKTLRLAMLVYTTCHSLAERIKLQRLRPVVDITLVKCADANSRTSLSITVLELC	515
QY	101	NCWVGNNKV--KVLGAGNAFTAG-KTIISCIPIPGFAQN-----ISIAQA	142
DB	516	NGOAGKLVGREILKAGSIGVGVDYVLSILGNQAESNNMQELGLRLCLIDRLLEFPA	575

Sequence 5327, Ap  
Sequence 9, Appli  
Sequence 112, Appli  
Sequence 29, Appli  
Sequence 48, Appli  
Sequence 2, Appli  
Sequence 5, Appli  
Sequence 18, Appli  
Sequence 4, Appli  
Sequence 4, Appli  
Sequence 4, Appli  
Sequence 12610, A  
Sequence 46846, A  
Sequence 46862, A  
Sequence 128, App  
Sequence 32, Appli  
Sequence 38, Appli  
Sequence 22, Appli  
Sequence 4, Appli  
Sequence 3, Appli  
Sequence 2, Appli  
Sequence 3, Appli  
Sequence 9, Appli  
Sequence 3, Appli  
Sequence 16, Appli  
Sequence 3, Appli



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US-10-135-687-2
; Sequence 2, Application US/10135687
; Patent No. US20020123120A1
; GENERAL INFORMATION:
; APPLICANT: CHANDRAMOULISWARAN, Ishwar et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001068DIV
; CURRENT APPLICATION NUMBER: US/10/135,687
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: 09/749,588
; PRIOR FILING DATE: 2000-12-28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-135-687-2

Query Match      3.6%; Score 103.5; DB 12; Length 1170;
Best Local Similarity 20.9%; Pred. No. 1.8; Indels 145; Gaps 33;
Matches 119; Conservative 65; Mismatches 241;

QY 9 PTNMDGTSGAGOLVPEANTAEPISEMPVAGAAT-AAATAGOVNMIDPWIMNNYVQAPQGE 67
Db 633 PVRMD---NAVPIVQAPAAQPLQIQ--SGVLTGSGCTPLMVATLHPQVA-----677
QY 68 FTISPNNTPGDILFDLQGLPHLNPFLSLAQMYNGWGNMKVKVLLAGNAFTAGKIIISC 127
Db 678 -TITPOYA---VPTLSCAAGRPALVEQTAAVLQAWPGGTQ-QILLPS---TWQOL----725
QY 128 IPGFAAQNISIAQATMFPHIADRVLEPIEVDVNRVLFHNNDAFTMRLVCMLYT 187
Db 726 --PGVALHN-SVQPTAMIPAMGSGQ-----OLADWRNAHSHGNQYSTIMOQPSLLTN 775
QY 188 -----PLRAS-----GSSSGTDPFVIAGRV--LTCPS 213
Db 776 HVTLATAQPLNVGVAHVVRQQSSSLPSKKNKQSAVPSSKSSLD--VLPQVYSLVGSSP 833
QY 214 ---DFSEFLVPPNVEQTKPFSVPLNPLNTLS-----NSRVPSLIKSMVVS 257
Db 834 LRTTSSYNSLVP--VQDQHQPILIPDTPSPVSVITIRSDTDEEDNKYKPS--SSGLKP 889
QY 258 RDHGQWQFQNGRVTLDGLOGTTPTSASOLCKIRGSVFHANGN---GYNLTELDSGPY 314
Db 890 RSN--VISYVTYVNDSPDSSLSSTPSTDTLSALRG-----NSGSVLEGPGRVVDGTGT 942
QY 315 HAFESAPIGFDPDLGECDMHMEASPTTQFNTGDVVIKQINVKQESAFAPHLGTIQADGLS- 373
Db 943 RTIIVP-PLK-TQLGDCVTATQASGLLSNKT KPVASVSGSSGCCITPTGYRAORGTS 1000
QY 374 -----DVSVNTNMTAKLGWSPVSDGHRGDVDPWIPRYGSTLTTEAAQLAPPIYPPGFG 429
Db 1001 AQLNLNSQNOQSSA-----APTQERSNNPAP-----RRQAFVAP-----LSQA 1040
QY 430 IVFEMSDPTAHGTNG---LSVPCTIQEFVTHFVNEQAAPTRGEA-----ALLHYLDPD- 480
Db 1041 PYTFQHGSP-LHSTGHPLAPAPAHLPSPQ--AHLYTYAAPTSAALGSTSSIAHLFSPQG 1097
QY 481 THRLNGEFKLYPEGFMTCPVNSGSGTGPOTL 510
Db 1098 SSRHAAAYTHPSTLVHQVPVS--VGPSLL 1125

RESULT 5
US-09-860-352A-2
; Sequence 2, Application US/09860352A
; Patent No. US20020132785A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Curtis, Rofy

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; APPLICANT: Welch, Nadine
; TITLE OF INVENTION: 13305 NOVEL PROTEIN KINASE MOLECULES AND
; FILE REFERENCE: 38155-20016.00
; CURRENT APPLICATION NUMBER: US/09/860,352A
; CURRENT FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/205,301
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1210
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-860-352A-2

Query Match      3.6%; Score 103.5; DB 10; Length 1210;
Best Local Similarity 20.9%; Pred. No. 1.9;
Matches 119; Conservative 65; Mismatches 241; Indels 145; Gaps 33;

QY 9 PTNMDGTSGAGOLVPEANTAEPISEMPVAGAAT-AAATAGOVNMIDPWIMNNYVQAPQGE 67
Db 673 PVRMD---NAVPIVQAPAAQPLQIQ--SGVLTGSGCTPLMVATLHPQVA-----717
QY 68 FTISPNNTPGDILFDLQGLPHLNPFLSLAQMYNGWGNMKVKVLLAGNAFTAGKIIISC 127
Db 718 -TITPOYA---VPTLSCAAGRPALVEQTAAVLQAWPGGTQ-QILLPS---TWQOL----765
QY 128 IPGFAAQNISIAQATMFPHIADRVLEPIEVDVNRVLFHNNDAFTMRLVCMLYT 187
Db 766 --PGVALHN-SVQPTAMIPAMGSGQ-----OLADWRNAHSHGNQYSTIMOQPSLLTN 815
QY 188 -----PLRAS-----GSSSGTDPFVIAGRV--LTCPS 213
Db 816 HVTLATAQPLNVGVAHVVRQQSSSLPSKKNKQSAVPSSKSSLD--VLPQVYSLVGSSP 873
QY 214 ---DFSEFLVPPNVEQTKPFSVPLNPLNTLS-----NSRVPSLIKSMVVS 257
Db 874 LRTTSSYNSLVP--VQDQHQPILIPDTPSPVSVITIRSDTDEEDNKYKPS--SSGLKP 929
QY 258 RDHGQWQFQNGRVTLDGLOGTTPTSASOLCKIRGSVFHANGN---GYNLTELDSGPY 314
Db 930 RSN--VISYVTYVNDSPDSSLSSTPSTDTLSALRG-----NSGSVLEGPGRVVDGTGT 982
QY 315 HAFESAPIGFDPDLGECDMHMEASPTTQFNTGDVVIKQINVKQESAFAPHLGTIQADGLS- 373
Db 983 RTIIVP-PLK-TQLGDCVTATQASGLLSNKT KPVASVSGSSGCCITPTGYRAORGTS 1040
QY 374 -----DVSVNTNMTAKLGWSPVSDGHRGDVDPWIPRYGSTLTTEAAQLAPPIYPPGFG 429
Db 1041 AQLNLNSQNOQSSA-----APTQERSNNPAP-----RRQAFVAP-----LSQA 1080
QY 430 IVFEMSDPTAHGTNG---LSVPCTIQEFVTHFVNEQAAPTRGEA-----ALLHYLDPD- 480
Db 1081 PYTFQHGSP-LHSTGHPLAPAPAHLPSPQ--AHLYTYAAPTSAALGSTSSIAHLFSPQG 1137
QY 481 THRLNGEFKLYPEGFMTCPVNSGSGTGPOTL 510
Db 1138 SSRHAAAYTHPSTLVHQVPVS--VGPSLL 1165

RESULT 6
US-09-735-367B-6
; Sequence 6, Application US/09735367B
; Patent No. US20020151477A1
; GENERAL INFORMATION:
; APPLICANT: Gustafsson, Jan-Ake
; APPLICANT: Calra, Francoise
; APPLICANT: Antonsson, Per
; TITLE OF INVENTION: NUCLEAR RECEPTOR COACTIVATOR
; FILE REFERENCE: 102093-100
; CURRENT APPLICATION NUMBER: US/09/735,367B
; CURRENT FILING DATE: 2000-12-12

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;; PRIOR APPLICATION NUMBER: US 60/174,544  
;; PRIOR FILING DATE: 2000-01-05  
;; NUMBER OF SEQ ID NOS: 18  
;; SOFTWARE: FastSeq for Windows Version 4.0  
;; SEQ ID NO 6  
;; LENGTH: 1070  
;; TYPE: PRT  
;; ORGANISM: mammal  
US-09-735-367B-6

Query Match 3.5%; Score 100.5; DB 10; Length 1070;  
Best Local Similarity 18.8%; Pred. No. 2.9;  
Matches 102; Conservative 56; Mismatches 188; Indels 197; Gaps 25;

QY 14 GTSAGQLVPEANTAPISMEPVAGATAAATAGQV-----NMIDPWI-----MNNY 60  
DB 542 GNSGAPQLQANQVQH-----AGQGAGPPQONQVSHGPPNMOPSLGMLIGHNNMQ 594  
QY 61 VOAPQGEFTISPNNTPGDIILFDLQLGP-----HLNPELSHLAQMYNGWGNKKVKV 111  
DB 595 QAGTSGVPQVNLNMQG---PQOQPPSQLMGHMQIIVPSQGMVQQ-QGTLPNPQPMI 649  
QY 112 LLAGNAFTAKIITICIPGFAAQNISIAQATMFPHVIADRVLEPIEVPLEDVRNVLPH 171  
DB 650 LSRAQLMPOGOMMVN--PP---SQNLGSPQRM-----677  
QY 172 NNDNAPTMLVCLMYTPLRASGSSGTDPEVIAGRVLTCPSPDFSEFLVPPNVEQ-KTK 230  
DB 678 -----TPPKQMLSQOQPMAPHNQNM---GPOGOVLLQONPMIEQIMTN 719  
QY 231 PFSVPNLPLNTLSNRV---PSLIKSMWSRHDQMGVQFNGRVTLDGQL---QGTTPIS 284  
DB 720 QMOGCKQEQENTQSNVMPCPAQIMRGPTNMOGNMVQETG---QMSGQLPQOQGVNNS 776  
QY 285 ASQCKIRGSVFHANGNGYNLTDELGSPYHAFESPAPIGFDPDLGECDDWHM---EASPTT 341  
DB 777 PSQVMGIGQVLRPPG-----PSP-----HMAQOHGDPAT 806  
QY 342 QFNT-----GDVIKIQNVKQESAFAPHLGTIQAAGLS-----373  
DB 807 TANNDVLSOMPDVSLQIINMYPHPVQAMQNSASGNHFSGHGMSFNAPFSGAPNGQM 866  
QY 374 -----DVSVNTNMIKLGWVSPSDGHRGVDWVTPRVGSLTTEAQL-----417  
DB 867 SCGQNPQPGVKNKDTLTSPLVNL-LQSDISAGHFG-----VANKQNTNANKPKKKPP 920  
QY 418 -----APLYPPGGEAIVFEMSDFPIAHGTNGLSVPTCIPOEFVTHFVNE-QA 465  
DB 921 RKKNSQODLNTPTDTRFAGLEEA-----DQPLPGEGLSLDNGSPK--LPEFSNRPPA 972  
QY 466 PTR 468  
DB 973 PSQ 975

RESULT 7  
US-09-738-626-5038  
; Sequence 5038, Application US/09738626  
; Publication No. US20020197605A1  
; GENERAL INFORMATION:  
; APPLICANT: NAKAGAWA, SATOSHI  
; APPLICANT: MIZOGUCHI, HIROSHI  
; APPLICANT: ANDO, SEIKO  
; APPLICANT: HAYASHI, MIKIRO  
; APPLICANT: OCHIAI, KEIKO  
; APPLICANT: YOKOI, HARUHIKO  
; APPLICANT: TATEISHI, NAOKO  
; APPLICANT: SENOH, AKIHIRO  
; APPLICANT: IKEDA, MASATO  
; APPLICANT: OZAKI, AKIO  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-125  
; CURRENT APPLICATION NUMBER: US/09/738, 626

;; CURRENT FILING DATE: 2000-12-18  
;; PRIOR APPLICATION NUMBER: JP 99/377484  
;; PRIOR FILING DATE: 1999-12-16  
;; PRIOR APPLICATION NUMBER: JP 00/159162  
;; PRIOR FILING DATE: 2000-04-07  
;; PRIOR APPLICATION NUMBER: JP 00/280988  
;; PRIOR FILING DATE: 2000-08-03  
;; NUMBER OF SEQ ID NOS: 7059  
;; SOFTWARE: PatentIn ver. 3.0  
;; SEQ ID NO 5038  
;; LENGTH: 828  
;; TYPE: PRT  
;; ORGANISM: Corynebacterium glutamicum  
US-09-738-626-5038

Query Match 3.5%; Score 100; DB 9; Length 828;  
Best Local Similarity 22.4%; Pred. No. 2.2;  
Matches 106; Conservative 50; Mismatches 143; Indels 174; Gaps 28;

QY 111 VLLAGNAFTAKIITICIPGFAAQNISIAQATMFPHVIADRV-LEPIEVPLEDVRNVL 169  
DB 394 VEIAGGTVDAGRTLVDGP---AMQPIITMKVTR--PSELAGVDYSAETVIARLEEVC 448  
QY 170 FHND-----NAPTMR-----LVCMLYTPLRASGSSGTDPEVI---AGRVLT-----209  
DB 449 AVSGDTLEVTPTTMRGDLTMSADLVEEVLRLEGLA--IPTIITAPAGRLTDAQKRRR 506  
QY 210 -----CPSPDFSFLFLVPPNV-----EOKTKPFSVPNLP-----NTL 242  
DB 507 AVGHALAYAGVAEIIIPSP-----FMDPEVFDVWGLAADDERKRTVSVLN-PLEAERNVL 559  
QY 243 SNRSRPSLIKSM--VSRDHG-----QMVQFQNGRVTLDGQLQGTTPSA-----S 286  
DB 560 STSLPSMLDAYKRVNRVARGHNDLSFLGLQQVAFEHG-----SGVSPMPSVASRPEES 611  
QY 287 QLCKIRGSVFHANGNGYNLTDELGSPYHA-----FESPAPIG----FPDLGECDW 333  
DB 612 VVAEL-----VDSLNPQLHVATVGTGNTIEFEGPWGKGRAYTFADA-----652  
QY 334 HMEASPTTQFNTGDVIKIQNVKQESAFAPHLGTIQA---DGLSDVSVNTNMIKLGWVSP 390  
DB 653 -TESARAVARAAGVTLLEANA---DALPWHGRC AALLIDG-----TP 691  
QY 391 VSDGHRGVDWVPIRYG-----STLTEAAQLAPPYPPGFEAIVFEMSDFP 438  
DB 692 V--GAGELHLPOLLEKAGLPARTCAMELDLSALPLVENLPAPV-----LSSEFP 737  
QY 439 IAHGTNGLSVPTCIPOEFVTHFVNEQAPTRGSAALLHYLDPDTHRN--LGBEFK 489  
DB 738 ALHODIALVVDETI PAEDVRAVVEAGAGELIETVELF----DVYRSEQLGENK 786

RESULT 8  
US-09-862-027-40  
; Sequence 40, Application US/09862027  
; Patent No. US20020142428A1  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin R.  
; TITLE OF INVENTION: NO. US20020142428A1el Kinases and Uses Thereof  
; FILE REFERENCE: 35800/234862  
; CURRENT APPLICATION NUMBER: US/09/862,027  
; CURRENT FILING DATE: 2001-05-21  
; PRIOR APPLICATION NUMBER: US 09/345,473  
; PRIOR FILING DATE: 1999-06-30  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 40  
; LENGTH: 1601  
; TYPE: PRT  
; ORGANISM: C. elegans  
US-09-862-027-40  
Query Match 3.5%; Score 100; DB 10; Length 1601;



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Db 777 PSQVNGIQGVLRPG-----PSP-----HMAQQHGDPAT 806
Qy 342 QFNT-----GDVIKQINVKQESAFAPHLGTIQADGLS----- 373
Db 807 TANNDVSLSQMMPDVSIQOTNNVPHVQMGNSASGNSHFSGHGMFNAFSGAPNGNQ 866
Qy 374 -----DVSNTNMIKLGWSPVSDGHRGDVDPWIPRYGSTLTLEAAQL----- 417
Db 867 SCGQNGPFVKNKDVLTLSPLLVNL-LQSDISAGHFG-----VNNKQNTNANKPKKKPP 920
Qy 418 -----APPYPPGFGAEVFFMSDFPIAHGTNGLSVPCITPQ 454
Db 921 RKKKNSQDLNTPDRPAGLEEA-----DQPLPGEQISLDNSGPK 962

RESULT 11
US-10-135-687-4
; Sequence 4, Application US/10135687
; Patent No. US20020123120A1
; GENERAL INFORMATION:
; APPLICANT: CHANDRAMOULISWARAN, Ishwar et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; FILE REFERENCE: CL001068DIV
; CURRENT FILING DATE: 2002-05-01
; PRIOR FILING DATE: 09/749,588
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1209
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-135-687-4

Query Match 3.4%; Score 98; DB 12; Length 1209;
Best Local Similarity 20.9%; Pred. No. 5.7;
Matches 119; Conservative 67; Mismatches 239; Indels 144; Gaps 32;

Qy 9 PTNMDGTSGAGQLVPEANTAEPISEPVAGAAAT-AAATAGQVNMIDPWIMNNYVQAPQ-- 65
Db 673 PYRMD---NAVPIVTPQAPAAQLQIQ--SGVLTQSGCTPLMATLHPQVA---TTIPQYA 724
Qy 66 GFTTSPNNTPGDILFDLQLPLNPLFSLHQAQMYNGWGNMKVKVLLAGNAFTAGKII 125
Db 725 VFPTLSCAGRPA-----LVEQTAAVLQAWPGGTQ-QILLP---SAWQQL- 764
Qy 126 SCIPPGFAAQNISIAQATMFPHVIADVRLPEIEVPLEDVRNVLFHNNDNAPTMRVLCML 185
Db 765 ----PGVALHN-SVQPAAVIPEAMGSSQ-----QLADWRNAHSHGNGYSTIMQOPSLL 812
Qy 186 YT-----PL-----RAGSSS-----CTDPEVIAGRVLTCPSPDFSL---- 218
Db 813 TNHVTLATAQPLNVGAHVVRQOQSSLSFKKNKOSAPVSSKSSLEVLPSSQYVSLVGSSP 872
Qy 219 -----FLVPPNVBQTKPFVSPNPLNLTLS-----NSRVPSLIKSMVYS 257
Db 873 LRTTSSYNLVP--VQDQHQPIIIPTPPFPVSVITIRSDTDEEDNKYEPN--SSSLKA 928
Qy 258 RDHGQWQFONGRVTLDGLOQTTPTSASOLCKIRGSVFHANGGNGYNLTLDGSPYHAF 317
Db 929 RSN--VISYVTVNDSPDSLSLSPHSTDTLSALR-----GNSGTLLEGPRGAADG 978
Qy 318 ESPAPIGFP-----DLGECDDHMEASPTTQFNTGCDVTKQINVKQESAFAPHLGTIQADGLS 373
Db 979 ICTRTTIVPLPLTQLGDCTVATQASGLLSKTKPKVASVSGQSSGCCITPTGYRAORGGAS 1038
Qy 374 DV---SVNTNMIKLGWSPVSDGHRGDVDPWIPRYGSTLTLEAAQLAPPYPPGFGAEI 430
Db 1039 AVQPLNSQNOQS-----SSASTSQERSNPN--APR-----RQQAIVAP-----LSQAP 1080
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Qy 431 VFFMSDFPIAHGNG---LSVPCTIPQEFVTHFVNEQAPTRGEA-----ALLHYLDPD-T 481
Db 1081 YAFQHGSP-L-HSTGHPLAPAPHLPSQ--PHLYTYAAPTSAALGSTSSIAHLFFPQGS 1137
Qy 482 HRNLGEFKLYPEGPMTCVPNNSGGTPQTL 510
Db 1138 SRHAAAYTTHPSTLVLHQVPVS--VGPSLL 1164

RESULT 12
US-09-858-754-4
; Sequence 4, Application US/09858754
; Patent No. US20020055130A1
; GENERAL INFORMATION:
; APPLICANT: Johnson, Gary L.
; TITLE OF INVENTION: METHOD AND PRODUCT FOR REGULATING APOPTOSIS
; FILE REFERENCE: CPI-042
; CURRENT APPLICATION NUMBER: US/09/858,754
; CURRENT FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: 09/023,130
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/039,740
; PRIOR FILING DATE: 1997-02-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1493
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-858-754-4

Query Match 3.4%; Score 98; DB 10; Length 1493;
Best Local Similarity 18.2%; Pred. No. 7.8;
Matches 83; Conservative 58; Mismatches 129; Indels 186; Gaps 22;

Qy 93 LSHLAQMYNGWGNMKV--KVLLAGNAFTAG-KIISCIPPGFAAQN----- 136
Db 694 ISTLELCQGAGELAVGREILKAGSIGVGVDYVLSCILGNQAESENMMQELLGRCLCID 753
Qy 137 --ISIAQATMPHVIADVRVLEPIEVPLEDVRNVL---FHNNDNAPTMM--RLVCMLYTP 188
Db 754 RLLLEISAEFYPHIVSTDVYSAEPVEIRYKKLLSLLAFALQSIDSNSHSMVGKLSRRY-- 811
Qy 189 LRAGSSSGTDPFVIAGRVLTCPSPDFSLFLVPPNVQKTKPFVSNPLPLNTLSNRVP 248
Db 812 -----LSSARMVTTPPLFSLKVTM-----LSASGSSHFA 841
Qy 249 SLIKSMVYSROH---GOMVQFQNGRVTLTDGO---LOGTTPTSASOLCKIRGSVFHANGN 302
Db 842 RMRRRLMAIADEVEAETAEVIQL-GSEDTLDGQDSSQALAPPRYPPESSLEHTAHVEKTK 900
Qy 303 GYNLTLDGSPYHAFESPA--PIGFPDLGECDDHMEASPTTQFNTGVDVIKQINVKQESAF 360
Db 901 GLKATRLSASSEDISDLRAGVSVGLP-----SSATTE----- 932
Qy 361 APHLGTIQADGLSDVSVNTNMIKLGWSPVSDGHRGDVDPWIPRYGSTLTLEAAQLAPP 420
Db 933 -QPKPTVQTKG-----RPHSQCLNSSLPLSP 957
Qy 421 --IYPPGFGAEIVFFMSDFPIAHGTNGLSVPC-----TIQEFVTHFVNEQAPTRGEAALL 474
Db 958 QLMFP-----AISAPCSSAPSPAGSVT----- 980
Qy 475 HVLDPDTHRNLCFEKLYPEGPMTC-VPNSSSGTGPQT 509
Db 981 ---DASKHR-----PRAFVPCIKIPSAS---PQT 1002

RESULT 13
US-10-121-032-63
; Sequence 63, Application US/10121032
; Patent No. US20020155550A1
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; GENERAL INFORMATION:
; APPLICANT: BYLINA, Edward J.
; TITLE OF INVENTION: GLYCOSIDASE ENZYMES
; NUMBER OF SEQUENCES: 72
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gray Cary Ware & Freidenrich LLP
; STREET: 4365 Executive Drive, Suite 1600
; CITY: San Diego
; STATE: CA
; COUNTRY: USA
; ZIP: 92121
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/121,032
; FILING DATE: 09-Apr-2002
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/134,078
; FILING DATE: 13-AUG-1998
; APPLICATION NUMBER: 08/949,026
; FILING DATE: 10-OCT-1997
; APPLICATION NUMBER: 60/056,916
; FILING DATE: 06-DEC-1996
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 09010/024002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 858/677-1456
; TELEFAX: 858/677-1465
;
; INFORMATION FOR SEQ ID NO: 63:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 956 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
;
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 63:
US-10-121-032-63
Query Match          3.3%; Score 97; DB 9; Length 956;
Best Local Similarity 20.4%; Pred. No. 4.9; Mismatches 225; Indels 246; Gaps 34;
Matches 137; Conservative 64;

QY 5 SKDAPTNM--DGTSGAGQLVPEANTAEPIS-----MEFVAGAATAAATAGQV 49
DB 191 SKD-PDNLIIIVGTSNYSQVDVA-SADPISDTNVAYTLHFYAFNPHDNLRNVAQTALDN 248
QY 50 NM---IDPWIMNNYVQAQGEFTISPNPTPGDILFDLQGLPHLNPFLSHLAQMYNGW-- 104
DB 249 NVALEFVTEW--GTILNTGGQEPKDEKSTNTWMAFLKEKGIS-HANNWSLSKAFPEPESVQ 305
QY 105 GNMKVKVLLAGNAFTAGKILISCI-----PPGAAQNIISAQATMPFHVIADVRV 154
DB 306 AQGVSGSLISNKLATSGELVKNLIONWDTETSTGPKTTQCTSTIECIARAMEATAQAGDEII 365
QY 155 LEPIEVLVEDVRNVLFNHNDNAPTMRVLCMLYTPLRAGSSSGTDPFVIAGRVLTCPSPD 214
DB 366 IAPGNYNFQDKIQGAFNRS-----VY--LYGSANGNSTPILIRGESATNP-PV 411
QY 215 FSFL-----FLVP-----PNVQKT-----KPFVSNPLPLNLT----- 242
DB 412 FSGLDYNNGYLLSIEGDYWNIRKDIKFTGSKGIVLDNSGSKLKNLVHDIIEEAHLRD 471
QY 243 --SNSRV-----PSLIKSMVSRDHQVMQVQFQNG-----RVTLDG 275
DB 472 GSSNSIDGCTTYNTGRTKPGFEGLYGSDKGQHDITYERACNNNTIENCTVGPNNVTABG 531
QY 276 --QLOGTTPTSASOLCKIRGVSFHHANGNGYNLTE-----LDGSPVH 315

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DB 532 VDVKECTMNTI-----IRNCVFSABEGISGENSSDAFIDLKGAIFYVRYNTFNVDGSEV- 584
QY 316 AFESPAPIGFDPDLGECDDHMEASPTTQFNTGDVVIKQINVKQESAFAPHILGCTIQADGLSDV 375
DB 585 ---INTGVDFLDRG-----TGFNTG-----PRNAIFENTY--NLGS----- 615
QY 376 SYNTNMIAKLGWSPVSDGHRGVDVDPWVIPRYGSTLTTEAAQLAPPIYPPGFGAIVFFMS 435
DB 616 -----RASEISTARKKQSGP-----EQTHVWDNIRNPN-----SV 645
QY 436 DFPPIAHGTNGL-----SVPCTIPQEVFHFVNEQAPTGEAALLHYLDP----- 479
DB 646 DFPISDGTENLVNKFPCPDWNIEPCNPVDE-----TNQAPT-----ISFLSPVNNITLV 693
QY 480 -----DTHRNLGEEFKLYPEGFMTCVPNSS-----CTGPQTLPINGVFFVFSW 521
DB 694 EGYNLQVEYNATDADGTIDNVKLYIDNNLVVRQINSTSYKNWGHSDSPNTDELNGL----- 747
QY 522 VSRFYQLKPVGT 533
DB 748 TEGTYTLKAIAT 759

RESULT 14
US-09-738-626-6888
; Sequence 6888, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 6888
; LENGTH: 1344
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-6888

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Query Match 3.3%; Score 96; DB 9; Length 1344;  
Best Local Similarity 18.4%; Pred. No. 10;  
Matches 90; Conservative 57; Mismatches 167; Indels 176; Gaps 22;

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QY 10 TNWDCSTGAGQLVPEANTAEPISMEPVAGATAAATAGQVNMIDPWIMNNYVQAQGEFT 69
DB 147 TNWSSDGEYVEITNTTAEPIDFSDT-----LNLY-PQDEFT 185
QY 70 ISPNT-----PGDIL-----FDLQGLPHLNPFLSHLAQMYNGWGNMKVKVLL 113
DB 186 ----NTNEAVAAEPFGDVLIIQPGKSLVFWFKNGPNDEATAADFAEY----- 228
QY 114 AGNAFTAGKIIISCIPPGFA---AQNISIAQATMPFHI-----ADVRLPEIEV 160
DB 229 -CTNLEAGKDLVEISSGGMANGTARCMQIQTN--GHIVNRGPFYNMAGASDVKANEGLHF 285

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Qy 161 PLED---YRNVLFHNDNAPTRLVCMLYTLPLRASGSSSGTDPPFVIAGRVLTC-PSPDPS 216
Db 286 AVDESOLKQTLVSGGATPTGVTYSIPNPLSAVIADSSV-PLITDNTATISINPAEPFT 344
Qy 217 FLFLVPPNVEQTKPFSVPN-----LPLNTLSNSRVPSLIKSNM 255
Db 345 FAFNITDDQVTRATLHVTSSAGEAATINLTEDDGSFNWALPAADLTGK---SWFEVTV 401
Qy 256 VSRHGQWQFQNGRVTLDGQ-----LQGTW----- 281
Db 402 TATDGFNSVTTEPVKRVTVVDGANTDPLRLNLEENOWVSGTIDVIGASDVFQKLELLIDDA 461
Qy 282 -----PTSASOLCKIRGSVFHANG--GNGYNLTDLGSPY---HAFESPATIGF 325
Db 462 PAVTNSSLSAAPTFAMEVQT--DVFFRNGILAGGEELRIFDQGTYANTETISTEPVPL-- 517
Qy 326 PDLGECOWHM-----EASPTQTFNTGDVLIKQINVKQESAFAPHLGTIOADG 371
Db 518 -----YHINEDGTLTVSVVACTKAAPEIDLNN--DDFQIRNLRLILFDGRTLTPAG 568
Qy 372 LSDSVNTNM 381
Db 569 ISDSNAWLNLM 578

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RESULT 15

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US-09-712-363-158
; Sequence 158, Application US/09712363
; Patent No. US20020164588A1
; GENERAL INFORMATION:
; APPLICANT: Eisenberg, David
; APPLICANT: Rotstein, Sergio H.
; APPLICANT: Marcotte, Edward M.
; TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
; FILE REFERENCE: 07419-032001
; CURRENT APPLICATION NUMBER: US/09/712,363
; CURRENT FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/US00/02246
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/179,531
; PRIOR FILING DATE: 2000-02-01
; PRIOR APPLICATION NUMBER: 60/117,844
; PRIOR FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: 60/118,206,
; PRIOR FILING DATE: 1999-02-01
; PRIOR APPLICATION NUMBER: 60/126,593
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/134,093
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/134,092
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/165,124
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/165,086
; PRIOR FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 292
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 678
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-712-363-158

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Query Match 3.3%; Score 95.5; DB 9; Length 678;  
 Best Local Similarity 21.6%; Pred. No. 4;  
 Matches 126; Conservative 63; Mismatches 195; Indels 199; Gaps 35;

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Qy 7 DAPTNM-----DGTSGAGOLVPEANTPEISMEPVAGAATAATAGQVNMIDPWIMNN 59
Db 24 DIRTNOVSTILASDGETAKIVPPEGNRVD-VNLSQVPMHVRQAVIAAE-----DRN 74
Qy 60 YVQAPOGEFT----ISPNNTPGDILFDLQLGPHLNPFLSHLAQMY-----NGWVG 105

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Db 75 FYSNPGFSGTFARAVKNNLEGG---DLQGG-----STITQQYVKNALVGAQHWGSG 124
Qy 106 NM-KVKVLLAGNAFTAG-----KIITSCIPPFAAQNISTAOATMRPHVIADRVRLP 157
Db 125 LMRKAKELVIATKMGSEWSKDDVLQAYLNIIFYGCAIGISAASKAYFDKPVQELTVAF- 183
Qy 158 IEVPLEDVNRNVLFHNDNAPTRLVCMLYTLPLRASGSSSGTDP-----FVIAGRVL 209
Db 184 -----GALLAALI-----RRPSTLDPVDPPEGAHARWNNVLDGMVET 220
Qy 210 ---CPSPDPSFLF--LVPPNV---EQTKP-----FVSNPLPLNTLSNS 245
Db 221 KALSPNDRAAQVFPETVPPDLARAENQTKGPNGLIERQVTRLELLEFNIDEQTLNT---- 276
Qy 246 RVPSLIKSMVSRDHGQWQFQNGRVTLDGQ-----LOGTTPTSASOLCKI-- 291
Db 277 -----QGLVVT-----TTIDPQAQRAAEKAVAKYLDGQDDMRRAVVSIDP 317
Qy 292 -RGSVFHANG---NGYNLTTEL---DGSPYHAFESPAP-----IGPPDLGECOWHMEASPT 340
Db 318 HNGAVRAYYGGDNANGDFQAAGLQTSSEKVFALVAALEQIG---LG---YQVDSPL 371
Qy 341 TQFNTGDVVIKQINVKQESAFAPHLGTIOADGLSDVSVNTN-----MIAKLGWVSPVSD-GH 395
Db 372 TV---DGIKITNVEGEC-----GTCNIAEALKMSLNTSYRLMLKLGSGPQAVADAHA 422
Qy 396 RGDVDPWVPIRYGSLTEAAQLAPPYPPGCEAIVF-----FMSDFPFIHCT---NGLS 447
Db 423 QAGIAS-SFPGVAHTLSEDDGKGGP-----NNGIVLQYQYTRVIDMASAYATLAASGIY 475
Qy 448 VPCTIPQEFVTHFVNEQAPTRGEAALLHYLDPDTHRNLEGEKFL 490
Db 476 HP-----PHEVQKVVSANGQV-----LFDASTADNTGDQRI 506

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Search completed: March 10, 2003, 19:04:41  
 Job time : 29 secs



GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: March 10, 2003, 18:26:56 ; Search time 31 Seconds  
(without alignments)  
2028.151 Million cell updates/sec

Title: US-09-926-799-1  
Perfect score: 2896  
Sequence: 1 MMASKDAPTNDGTSGAGQ.....YQLKPVGTAGPACRLGIRRS 545

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 559967 seqs, 115362732 residues

Total number of hits satisfying chosen parameters: 559967

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Pending\_Patents\_AA\_New.\*  
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2: /cgn2\_6/ptodata/1/paa/US06\_NEW\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/paa/US07\_NEW\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/paa/US08\_NEW\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/paa/US09\_NEW\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/paa/US10\_NEW\_COMB.pep.\*  
7: /cgn2\_6/ptodata/1/paa/US10\_NEW\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	1950	67.3	530	6	US-10-314-739-3
2	272.5	9.4	669	6	US-10-209-507-2
3	272	9.4	668	6	US-10-209-507-4
4	122.5	4.2	6310	6	US-10-282-122A-67793
5	122	4.2	3263	6	US-10-282-122A-77663
6	114.5	4.0	1765	6	US-10-282-122A-48055
7	112	3.9	3930	6	US-10-282-122A-46817
8	109	3.8	10431	7	US-60-427-045-310
9	108.5	3.7	1194	6	US-10-282-122A-46163
10	108	3.7	5935	6	US-10-243-242A-8
11	108	3.7	5935	6	US-10-243-242B-8
12	108	3.7	5935	6	US-10-243-243B-8
13	107.5	3.7	2703	6	US-10-282-122A-66108
14	106.5	3.7	931	1	PCT-US02-33645-26
15	106	3.7	615	6	US-10-366-683-26695
16	104	3.6	345	6	US-10-218-140-4332
17	103.5	3.6	1210	6	US-10-258-106-1
18	103.5	3.6	1450	6	US-10-144-779-374
19	102.5	3.5	1210	6	US-10-293-017-66
20	102.5	3.5	1210	6	US-10-293-071-66
21	101	3.5	1556	6	US-10-144-779-550
22	100.5	3.5	4288	7	US-60-443-566-2732
23	100	3.5	2358	6	US-10-282-122A-45763
24	100	3.5	6879	7	US-60-419-463-26
25	99	3.4	4961	1	PCT-US02-10366-64
26	98	3.4	490	6	US-10-258-951-67

27	98	3.4	1194	6	US-10-282-122A-46577	Sequence 46577, A
28	97.5	3.4	1328	1	PCT-US02-39126-6	Sequence 6, Appl
29	97.5	3.4	2126	6	US-10-052-648A-39	Sequence 39, Appl
30	97.5	3.4	3074	6	US-10-282-122A-65531	Sequence 65531, A
31	97	3.3	584	5	US-09-724-676-91417	Sequence 91417, A
32	97	3.3	584	5	US-09-724-676A-91417	Sequence 91417, A
33	97	3.3	645	5	US-09-724-676-91423	Sequence 91423, A
34	97	3.3	645	5	US-09-724-676A-91423	Sequence 91423, A
35	96.5	3.3	852	7	US-60-443-566-3834	Sequence 3834, Ap
36	96.5	3.3	903	5	US-09-724-676-94702	Sequence 94702, A
37	96.5	3.3	903	5	US-09-724-676A-94702	Sequence 94702, A
38	96.5	3.3	941	5	US-09-724-676-94682	Sequence 94682, A
39	96.5	3.3	941	5	US-09-724-676A-94682	Sequence 94682, A
40	96.5	3.3	943	5	US-09-724-676-94698	Sequence 94698, A
41	96.5	3.3	943	5	US-09-724-676-94699	Sequence 94699, A
42	96.5	3.3	943	5	US-09-724-676-94700	Sequence 94700, A
43	96.5	3.3	943	5	US-09-724-676-94701	Sequence 94701, A
44	96.5	3.3	943	5	US-09-724-676A-94698	Sequence 94698, A
45	96.5	3.3	943	5	US-09-724-676A-94699	Sequence 94699, A

ALIGNMENTS

RESULT 1  
US-10-314-739-3  
; Sequence 3, Application US/10314739  
; GENERAL INFORMATION:  
; APPLICANT: Estes, Mary K  
; Jiang, Xi  
; Graham, David Y  
; TITLE OF INVENTION: Methods and Reagents to Detect and  
; Characterize Norwalk and Related Viruses  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Fulbright & Jaworski L.L.P.  
; STREET: 801 Pennsylvania Ave., N.W.  
; CITY: Washington, D.C.  
; STATE: <unknown>  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/314,739  
; FILING DATE: 09-Dec-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/486,049  
; FILING DATE: June 7, 1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Davis, Peter  
; REGISTRATION NUMBER: 36,119  
; REFERENCE/DOCKET NUMBER: 311.023  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-662-0200  
; TELEFAX: 202-662-4643  
; TELEX: <Unknown>  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 530 amino acids  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-10-314-739-3

Query Match 67.3%; Score 1950; DB 6; Length 530;  
Best Local Similarity 67.0%; Pred. No. 1.9e-160;  
Matches 366; Conservative 66; Mismatches 96; Indels 18; Gaps 7;

6572862

QY 1 MMASKDAPTNMGTSGAGQLVPEANTAEPTSMPEVAGATAAATAAGVNMIDPWIMNNY 60  
 DB 1 MMASKDAPTNMGTSGAGQLVPEANTAEPTSMPEVAGATAAATAAGVNMIDPWIMNNY 60  
 QY 61 VOAPQGEFTISPNNTPGDILDLQGLPHLNPFLSHLAQMYNGWGNMKVLLAGNAFTA 120  
 DB 61 VOAPQGEFTISPNNTPGDILDLQGLPHLNPFLSHLAQMYNGWGNMKVLLAGNAFTA 120  
 QY 121 KIIISCIPTPPGFAAGNIAQATMPHVIADRVLEPIEVLPLEDVRNVLPHNND-NAPTM 179  
 DB 121 KIIIVSCIPPPGFSNHLTIAQATLPHVIADRVLEPIEVLPLEDVRNVLPHNNDNQTM 180  
 QY 180 RLVCMLYTPLRASGSSGTPDPIVAGRVLTCPSPDFSLFLVPPNVEQTKPFSPNPLPL 239  
 DB 181 RLVCMLYTPLRGSGTG--DSEVAVAGRVMTCPSPDFENFLFLVPPIVEQTKRFFLPL 238  
 QY 240 NTLNSRVPSLTKSMVSRDHGMQVQFONGRVTLQGLQGTTPTSASOLCKIRGSVFHAN 299  
 DB 239 SLSLSRAPLPISSMGIQSPDNVQSVQFONGRCTLQGLVGTTPVSLSHVAKIRGT----S 294  
 QY 300 GNGYNLTDLGSPYHAPESPAPIGFPDLGECDDHWEASPTQFNTGDIQINVKQESA 359  
 DB 295 NCTVINLTDLGTPHPFEGPAPIGFPDLGGCDWHIN---MTQFGHSSQTQTDVDTTPT 351  
 QY 360 FAPHLGTTQADGLSDVSVNTNMIAKLGWSPVSDGHRGDVDPWVTPRYGSLTLEAAQLAP 419  
 DB 352 FVPHLGSIQANGIG---SGNVGVLSWISPPSHPSGQVDLWKIPNKGSSITEATHLAP 407  
 QY 420 PTPPGFGEAIVFFMSDFPIANGTNGLSVPCTIPOEFVTHFVNEQAPRGEAALLHYLDP 479  
 DB 408 SVTPPGFGEVLVFFMSKMP---GPGAYNLPCLLPQEIYISHLASEQAPTVGEAALLHYVDP 464  
 QY 480 DTHRNLGEPKLYPEGMTCPVNSGSGTPQTLPIGVFVSVSVRYOLKPVGTAGPA-C 538  
 DB 465 DTGRNLGEPKAYPDGFLTCVPGASSGPOOLPIGVFVSVSVRYOLKPVGTASSARG 524  
 QY 539 RLGIIR 544  
 DB 525 RLGLRR 530

RESULT 2  
 US-10-209-507-2  
 ; Sequence 2, Application US/10209507  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Audonnet, et al.  
 ; TITLE OF INVENTION: FELINE CALCIVIRUS GENES AND VACCINES IN PARTICULAR RECOMBINANT  
 ; FILE REFERENCE: 454313-3151.2  
 ; CURRENT APPLICATION NUMBER: US/10/209,507  
 ; PRIOR FILING DATE: 2002-11-12  
 ; PRIOR APPLICATION NUMBER: 09/617,594  
 ; PRIOR FILING DATE: 2000-07-14  
 ; PRIOR APPLICATION NUMBER: 60/193,332  
 ; PRIOR FILING DATE: 2000-03-30  
 ; PRIOR APPLICATION NUMBER: France 00 01761  
 ; PRIOR FILING DATE: 2000-02-11  
 ; PRIOR APPLICATION NUMBER: France 99 09421  
 ; PRIOR FILING DATE: 1999-07-16  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: Patentin version 3.0  
 ; SEQ ID NO 2  
 ; LENGTH: 669  
 ; TYPE: PRT  
 ; ORGANISM: Feline calicivirus  
 US-10-209-507-2  
 Query Match 9.4%; Score 272.5; DB 6; Length 669;  
 Best Local Similarity 23.4%; Pred. No. 7.5e-15;  
 Matches 128; Conservative 76; Mismatches 194; Indels 149; Gaps 26;  
 QY 13 DGTSGAGQLVPEANT-AEPTSMPEVAGATAAATAAGVNMIDPWIMNNYVQAPQGEFTI- 70  
 DB 13 DGTSGAGQLVPEANT-AEPTSMPEVAGATAAATAAGVNMIDPWIMNNYVQAPQGEFTI- 70

DB 126 DGDSSI--TTPEQGTLVGGVIAEPSSAQMATAADAATGKSVDSSEW-----ESFSESH 174  
 QY 71 -----SPNNTPGDILDLQGLPHLNPFLSHLAQMYNGWGNMKVLLAGNAFTAGKII 125  
 DB 175 TSVNWSITSETGKLLFKQSLGPLLNPYLEHLKSLYVAWSGVSDVRFISIGSGVFGKLA 234  
 QY 126 SCIPPGF-AAQNTISIAQATMPHVIADRVLEPIEVLPLEDVRNVLPHNNDNAPTM 184  
 DB 235 IVVPPGVDPVQSTSMQLQ---YPHVLFDAQVPEVIFSPDLRSTLYHLMSDTDTTSLVIM 291  
 QY 185 LY-----TPLRASGSSGTPDPIVAGRVLTCPSPDFSLFLVPPNVEQTKPFSPVPLN 240  
 DB 292 VYNDLIPYANDSNSSGC---IVT--VETAPGPDKFKHLKPPG-----S 331  
 QY 241 TLSNRVPS-LI-----KSMVSRDHGMQVQ-----FONGRVTLQGLQGTTPTSASQL 288  
 DB 332 MLTIGSIPSDLIPKSSLSLWGNRYWSDITDFVIRPFVFOANR-HFDFN-QETAGWSTPRF 389  
 QY 289 CKIRGSVFHANG---GNG-----YNTLDELGSPY--- 314  
 DB 390 RPIITITISNGSKLGTGVATDIYVPGIPDGPDTTIGEELTPAGDYSITNGSNDIATA 449  
 QY 315 HAFESPAPI---GFPDLGECDD---WHMEASPTTOFNT-----GDVIRKQINVKQESAF 360  
 DB 450 NAYDSADVITNTNFRGMVTCGALORAWGDKKISSTAFITAIKEGNTLKPSTIDMTKI 509  
 QY 361 A----PHLGTITQADGLSDVSVNTNMIAKLGWV-----SPVSDGHRGDVDPWVTPRYGSLT 412  
 DB 510 AVYQDTHVG-----RDVQTSDDTLAILGYTGIGEAIGSNRDSVVVRISMLPETGAR-- 560  
 QY 413 EAAQAPPIPPGGEAIVFFMSDFPIANGTNGLSVPCTIPOEFVTHFVNEQAPRGEAA 472  
 DB 561 -----GNNHPIFYKNSIKLGYLRSIDV-----FNSOILHTSKQLS 596  
 QY 473 LLHYLDP 479  
 DB 597 LNHVLLP 603

RESULT 3  
 US-10-209-507-4  
 ; Sequence 4, Application US/10209507  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Audonnet, et al.  
 ; TITLE OF INVENTION: FELINE CALCIVIRUS GENES AND VACCINES IN PARTICULAR RECOMBINANT  
 ; FILE REFERENCE: 454313-3151.2  
 ; CURRENT APPLICATION NUMBER: US/10/209,507  
 ; CURRENT FILING DATE: 2002-11-12  
 ; PRIOR APPLICATION NUMBER: 09/617,594  
 ; PRIOR FILING DATE: 2000-07-14  
 ; PRIOR APPLICATION NUMBER: 60/193,332  
 ; PRIOR FILING DATE: 2000-03-30  
 ; PRIOR APPLICATION NUMBER: France 00 01761  
 ; PRIOR FILING DATE: 2000-02-11  
 ; PRIOR APPLICATION NUMBER: France 99 09421  
 ; PRIOR FILING DATE: 1999-07-16  
 ; NUMBER OF SEQ ID NOS: 26  
 ; SOFTWARE: Patentin version 3.0  
 ; SEQ ID NO 4  
 ; LENGTH: 668  
 ; TYPE: PRT  
 ; ORGANISM: Feline calicivirus  
 US-10-209-507-4  
 Query Match 9.4%; Score 272; DB 6; Length 668;  
 Best Local Similarity 31.0%; Pred. No. 8.3e-15;  
 Matches 76; Conservative 36; Mismatches 77; Indels 56; Gaps 11;  
 QY 23 PRANT-----AEP-ISMPEVAGATAAATAAGVNMIDPWIMNNYVQAPQGEFTI----- 70  
 DB 133 PEQGTLVGGVIAEPSSAQMATAADAATGKSVDSSEW-----W-----EAFSEHTSVN 177  
 QY 71 -SPNNTPGDILDLQGLPHLNPFLSHLAQMYNGWGNMKVLLAGNAFTAGKIIISCIP 129

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Db 178 WTSSTQKILPKQSLPLNLYLTHLAKLYVWAGSIEVRFSGSGVFGKLAIVVP 237
Qy 130 PGF-AAQNISIAQATMFHVIADRVLEPIEVPLEDRVNLFNHNDNAPTMRVLCMLY-- 186
Db 238 PGIDPVQSTSMLO---YPHVLFDAQVEVIFITFDLRNLSLHLSMDTOTTSLVIMYND 294
Qy 187 --TPURASGSGSTDPFVIAGRVLCPCSPDFSLFLVPPNVBEQTKPFSPVNPPLNLTLSN 244
Db 295 LINPVANDSNSSGC---IVT--VERKPGDFFKHLKPPG-----SMLTH 334
Qy 245 SRVPS 249
Db 335 GSIPS 339

RESULT 4
US-10-282-122A-67793
; Sequence 67793, Application US/10282122A
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67793
; LENGTH: 6310
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-67793

Query Match 4.2%; Score 122.5; DB 6; Length 6310;
Best Local Similarity 19.5%; Pred. No. 2;
Matches 110; Conservative 70; Mismatches 221; Indels 163; Gaps 22;

Qy 8 APTNMDGTSGAGQLVPEANTAEPISEMPVAGATAAATAGQVNMIDPWIMNMYVQAPQGE 67
Db 4016 AASNLNSAATVLSGQGEAGASVTVRDASGAILATGTVNSGQGFQITLPSAQVTGSLQ 4075

Qy 68 FTIS-----PNNTPGDILFDLQGLPHLNPFLSHLAQMYNG-----WVG 105
Db 4076 VTLSDAAGNVSGPASLATPDHTPPAAI-----SNPVLSDQGRQLSGSGEAGATVQVR 4127
Qy 106 NKVKVLLAGNAFTACKIIISCLIPPGFAAQNISIAQATMFPHVIAVDRVLEPIEVPLEDV 165
Db 4128 NAAGALLGATGTCGRFTVTEDTPOANGOVIGVTOQMDAASNTSPAINVTTPDLTPPAPL 4187
Qy 166 RVLFPHNNDAPTMRVLCMLYTPLRASGSS---SGTDPFVI----- 203
Db 4188 TNVVLNNG-----LTLCGLGAGATVTVIIGDGTIIIGTGLVAANGSFTLTLSAQ 4238
Qy 204 -----AGR-----VLTCPSPDFSLFLVPPNVBEQTKP---FSVPLNPLNLTLSNS 245
Db 4239 LNAQLLSVTQTDAGNNTSTAVAVTAPDET-----PP-----TAPTALALSGTGLTGN 4288
Qy 246 RVPSLIKSMVSRD-HGQMVQFONG--RVTL-----DGLOQTTPISASOLCKIRGSVFH 297
Db 4289 EAGSTVTVRDASGNVLCTAVAGNGTFTVTLNSAQTNGQILQVATATDAA-----GNVSP 4342
Qy 298 ANGGNGYNLTDELGDSPYHAFESPAPIGFPLGEC-----DWHMEASPTTQFNTGDDVI 349
Db 4343 A-----APYTRADTTPPAAVANLAVSANGATLTGCGEAGATVTVRAPDGTVL 4389
Qy 350 KQINVKQESAFA-----PHLGTIQADGLSDYSVNTNMIAKLGWVSPVSDGHRGDV 399
Db 4390 GNATVAADGHFVSLSPLAAITGESLSVQADAAQNVSPAQNVTP-CALAPATP----- 4442
Qy 400 DPWVPRYGSTLTEAAQLAPPYPPGFGGEAIVFFMSDFPIAHGTNGL---SVPTCTIPOEF 456
Db 4443 DNLILAADGLSVSGTAEGSTIK-----VYGPNGVLIGSSPVTNDGTF 4485
Qy 457 VTHFVNEQAPTRGCEAALLHYLDPD 480
Db 4486 TVNLGSAQA--NGEVLOVSATGPD 4507

RESULT 5
US-10-282-122A-77663
; Sequence 77663, Application US/10282122A
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
```

; APPLICANT: Xu, H.									
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms									
; FILE REFERENCE: ELITRA_034A									
; CURRENT APPLICATION NUMBER: US/10/282,122A									
; CURRENT FILING DATE: 2003-02-20									
; PRIOR APPLICATION NUMBER: 60/191,078									
; PRIOR FILING DATE: 2000-03-21									
; PRIOR APPLICATION NUMBER: 60/206,848									
; PRIOR FILING DATE: 2000-05-23									
; PRIOR APPLICATION NUMBER: 60/207,727									
; PRIOR FILING DATE: 2000-05-26									
; PRIOR APPLICATION NUMBER: 60/230,335									
; PRIOR FILING DATE: 2000-09-06									
; PRIOR APPLICATION NUMBER: 60/230,347									
; PRIOR FILING DATE: 2000-09-09									
; PRIOR APPLICATION NUMBER: 60/242,578									
; PRIOR FILING DATE: 2000-10-23									
; PRIOR APPLICATION NUMBER: 60/253,625									
; PRIOR FILING DATE: 2000-11-27									
; PRIOR APPLICATION NUMBER: 60/257,931									
; PRIOR FILING DATE: 2000-12-22									
; PRIOR APPLICATION NUMBER: 60/267,636									
; PRIOR FILING DATE: 2001-02-09									
; PRIOR APPLICATION NUMBER: 60/269,308									
; PRIOR FILING DATE: 2001-02-16									
; Remaining Prior Application data removed - See File Wrapper or PALM.									
; NUMBER OF SEQ ID NOS: 78614									
; SOFTWARE: PatentIn version 3.1									
; SEQ ID NO 48055									
; LENGTH: 1765									
; TYPE: PRT									
; ORGANISM: Burkholderia cepacia									
US-10-282-122A-48055									
Query Match 4.0%; Score 114.5; DB 6; Length 1765;									
Best Local Similarity 20.9%; Pred. No. 1.6;									
Matches 102; Conservative 58; Mismatches 198; Indels 129; Gaps 22;									
Qy	2	MMASKDAPTN-----MDGTSGAGQLVPEANTAPISME-----PVAGATAAAT-----AG	47						
Db	966	MIAPTTEPTSSVTVPMTGAPCA-----VVSPTVTEADGVPVLPASAVAVPTITVPAG	1017						
Qy	48	QVNMDPWNMNYVOAQOGETTSPNNTPGDILFDLQGLPHLNPFLSHLAQMYNGWGNM	107						
Db	1018	S-----GVEGVYHAPLGSAVTVASGVP-----SPFVSLTVAPASAVPDS	1058						
Qy	108	KVKVLLAGNAFTAGK--IIISCIPPGFAAQNISIAQATMFPHTVADRVLEPIEVLPEV	165						
Db	1059	DVPSV-----AFTVGNAGAVVSIVSKAVLGTTLTPAVS---VAVTVRLCAPSPKPVGV	1110						
Qy	166	RNVLFHNDNAPTMRVLCMLYT-----PLRASGSSSGTDPFVIAGRVLTCPSPDFS	216						
Db	1111	-NVQFPDGSVAVVNNVPSYTLTVLPASAVPLNVGVASSVLPPEMIA-----	1157						
Qy	217	FLFLVPPNVEQTKPFSPNPLNLTLSNSRVPSLIKSMVSRDHGQMVFQNGRVTLDGQ	276						
Db	1158	-----PTTEPTSSVTVPMTGAPG---AVVSPVTTEADGVP-----LPAA	1194						
Qy	277	LOGTTPTASQLCKIRGSVFHANGNGYNLTLDGSPYHAFESPAPI-GFPDLGECDDWHM	335						
Db	1195	SVAVTPIITVAGSGVEGVYHAPLGSAVTVASGVPSPFVSLTVAPASAVPD-----	1246						
Qy	336	EASPTTQENTGDVVIKQINVKQESAFAPHLGTIQADGLSDVSNTNMLIAK-----	1246						
Db	1247	NDVPSVAVTVGTAGAVSVIVRSKAV---LGLTLTPAVS-VAVTVRLCAPSPSAVGVNVQ	1302						
Qy	391	VSDGHRGDVDPWVPIPRYGSTLTFAAQ-----LAPPIYPPGFGGAIVFMSDFPLAHGTN	444						
Db	1303	FPDGSVAVVPSNVVPSYTLTVLPASAVPLNVGVASSVLP-----EAIA-----	1353						
Qy	445	GLSVPECT 451							
Db	1354	SVTVPMPT 1360							

```
RESULT 7
US-10-282-122A-46817
; Sequence 46817, Application US/10282122A
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282.122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46817
; LENGTH: 3930
; TYPE: PRT
; ORGANISM: Bacillus anthracis
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (19)..(19)
; OTHER INFORMATION: X-any amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (38)..(38)
; OTHER INFORMATION: X-any amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (3455)..(3455)
; OTHER INFORMATION: X-any amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (3459)..(3459)
; OTHER INFORMATION: X-any amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (3552)..(3552)
; OTHER INFORMATION: X-any amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (3566)..(3566)
; OTHER INFORMATION: X-any amino acid
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US-10-282-122A-46817

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Query Match          3.9%; Score 112; DB 6; Length 3930;
Best Local Similarity 18.8%; Pred No. 8.3;
Matches 135; Conservative 86; Mismatches 264; Indels 232; Gaps 34;

QY 5 SKDAP-----TNMDGT-----SGAGQLVPEANTAEPISEBPVACAATAA-----43
Db 746 SADSPTEVDTPDGTTFIPNTEFLINGVLQNNADPNVGVPLSPISPANGSLTSLVSVQVTVTSL 805
QY 44 -----ATACQVNM-----DPWIMN-----NYVQAPQGEFTI-----70
Db 806 PTQNPNTSSSTQSYSPILNPGDPPTTETSLNSVTSQINLANVVIKQVDLTIDYDQPI 865
QY 71 -----SPNTPGD--ILFD-LQLGPHLNP---FLSHLAQMYNGVGNKVKVLLAGNA 117
Db 866 TYTIALANFGNTPANNVVTDLLPGCTTLVPNSIFIGGALQGLCADPSAGLOVGTIPAGGF 925
QY 118 FT-AGKIIICIPPGFAAONISIAQATMF-----PHVI-----ADVRVLEP 157
Db 926 TTIVFOIGANSLPSPNPVQNSAVLQYNFIADPNSPVVRNSASNIIVTTQINTANIVATKL 985
QY 158 IEVPLEDVNRVLFH-----NNDNAPTML-----VCMLYTPLRASGSS 196
Db 986 TSTNEADVGDVITYATILTNNGNIPASNVTFDIIIPAGTIFLPTVTINGVPIANANPAN 1045
QY 197 GTDPEVIAGRVLTCPSPDFSLFLVP-----PNVQKTKPFVS---PNLP--LNTLSNS 245
Db 1046 G-----ILGTIGANSRTVAQVVFVPTIPSANPIANQSTTFQYTYDPSKPAYMQWVASN 1101
QY 246 RVPSLIKSMVSRDHGMVQFQNGR--VTLDGLOCTTPTSASQL-----288
Db 1102 TVQTTINNATITSVKSADKQFANVNDIITVTTLTNNGNTLASNIIVTFDAIPSGTSFIPN 1161
QY 289 -CKIRGSVP-HANGGNGYNLTDLGDS-----PYHAFESAPITGFPDGLGCDWHMEA 337
Db 1162 SVTVNGTTLSNANPANGIAIDPINPNANTIISFQGVNSIPNPNI--PNQSTTTYQYVV 1219
QY 338 SP-----TTOFNT-----GDVIKQINVKQESAFAPHLGTI 367
Db 1220 NPNLPPASNTLSNVITTOINNATIIATKSVNTPNNAIGDIVTYTAVTWGNIASATV 1279
QY 368 QADGLS-----DVSVNTNMIKLGWVSPVSDGHRGDVDP-----WVPIRYS 409
Db 1280 LTDGLGPGASFIPNSVTINNVSQPG-LDPSLGIHLDDISPECTTFTFQVKILAIIPSG- 1337
QY 410 TLTEAAQL-----APPIYPGGEAIVFFMSDPPHAGTNGLSVPCITPOEFVTHFVNEQ 464
Db 1338 TLTNNALVNYEYTVNPTETPAVGSTV-----TNTTVPIV---DATLVINKN 1381
QY 465 APTR-----GEAALLHYLDPDTHRNLGFEKLYPEGFMTCVPNSSGTCGPOTLPIGVFV 517
Db 1382 ASTTFATIGDTITF-----TSVVNTNGTNTANNIVFTDSIPNGTTFVPNSFKINGTV 1434
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RESULT 8

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US-60-427-045-310
; Sequence 310, Application US/60427045
; GENERAL INFORMATION:
; APPLICANT: The Board of Trustees of the University of Arkansas
; APPLICANT: O'Brien, Timothy
; APPLICANT: Beard, John
; APPLICANT: Underwood, Lowell
; TITLE OF INVENTION: CA125 Gene and Its Use for Diagnostic and Therapeutic
; FILE REFERENCE: 022438.44514
; CURRENT APPLICATION NUMBER: US/60/427,045
; CURRENT FILING DATE: 2002-11-15
; NUMBER OF SEQ ID NOS: 314
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 310
; LENGTH: 10431
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-60-427-045-310

Query Match
Best Local Similarity 3.8%; Score 109; DB 7; Length 10431;
Matches 99; Conservative 81; Mismatches 222; Indels 138; Gaps 22;

Qy 5 SKDAPTNMDGTSGAGQLVPEANTAP-ISMPEVAGAATAAATAGQVNMIDPWIMNNVQA 63
Db 8743 SRTALSIGRTSTG---PAOSTISPELSTETIRISTPLTTTGSAEWITPKTGHSGAS 8799
Qy 64 PQGEFTISPNNT---PGDILEDLGLPHLPFLSHLAQMYNG-----WVGNNKVK----- 110
Db 8800 SOGTFLLDTSKRASWPG---THSAAATHRSPHSGMTTPMSRGPEDVSWPSRPSVEKTSPP 8855
Qy 111 -VLLAGNAFTAGKII-----ISCIPTGCF- 132
Db 8856 SSLVSLSAVTPSPLYSTPSSSHSSPURVTSLFTFVNMKTTMDLDTSLPEVTTSPPSMN 8915
Qy 133 --AQNISIAQTM-----FPHVIADVRVLEPI--EV 160
Db 8916 ITSDESLATKATMETEAIQISENTAVTQMGTSARQEFYSYPCLPPEPSKVTSPVVTSS 8975
Qy 161 PLEDVRRNVLFHNNNDNAPMRL---VCMLYTLPTRASGS---SGTDPFVIAGRVLTCPSPD 214
Db 8976 TIKDIVSTTIPASSEITRIEMESTSTLTPTPRETSTSOEIIHSATKPSVTPYKALTSATIE 9035
Qy 215 FSFLPLVP---PNVEOKTKPFSVPLNPLNTLSNSRVPSLIKSMMSVRDHQGVQFQNGR 270
Db 9036 DSMTOVMSSSRGPPDQSTNSQDISSEVITRLTSLSPKAESTEMITITQTSFGATSRGT 9095
Qy 271 VTLDQG---LOGTPT-----SASQLCKIRG-----SVFHANGGNGYNLTELD 310
Db 9096 LTLDTSTTFMSGTHSTASGFSHSQMTALMSRTPGDVPWLSHPSEVEEASSAS-FSLs--- 9151
Qy 311 GSPYHAFESPAPIGPFDLGECDWHEASPTTQFNTGDVQKINV-----KOESAFAPHLG 365
Db 9152 -SPVMTSSPSVSTLPD-----SIHSSLPVTSLLTSGLVKTKTELLGTSEPTSSPPNLS 9206
Qy 366 TQAQGLSDVSNTNMIAKLWVSPVSDGHRGDVDPWPVPRYGSTLTLEAAQLAPPIYPPG 425
Db 9207 SPSAEILLATTEVTD-TEKLEMTNVVTSYTHESPSSVLA--DSVTTRKATSSMGITYPTG 9263

RESULT 9
US-10-282-122A-46163
; Sequence 46163, Application us/10282122A
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; CURRENT APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; . PRIOR APPLICATION NUMBER: 60/230,347
```

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; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46163
; LENGTH: 1194
; TYPE: PRT
; ORGANISM: Bacillus anthracis
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (3)..(3)
; OTHER INFORMATION: X=any amino acid
US-10-282-122A-46163

Query Match
Best Local Similarity 3.7%; Score 108.5; DB 6; Length 1194;
Matches 130; Conservative 88; Mismatches 257; Indels 249; Gaps 31;

Qy 9 PTNMD-GTSGAGQ-----LVPEAN---TAEPISMEPVAGAATA---A 43
Db 213 PTNPIGTVAAGOTTVTTFQVOVTSLSPLANGTIINEANVTYSQNPTEPPTTTTTPPT 272
Qy 44 ATACQVNMIDPWIMNNVQAQGE---FTISPNNT-----PGDI 79
Db 273 NTSVRTAIVNPKTVSPQVADIGDIITYITPLNTGNSATNVIIVTDPIPAAGTTFIPNSV 332
Qy 80 LFDLQGLPHLPFLSHLAQMYNGWNNKVKVLLAGNAFTAG-KIISCIPPGFAAQNIS 138
Db 333 TINGVSPQNIAP-----AGIQVGTINAGSTTTTFQVOVTSLSPLONGVIRNIG 380
Qy 139 IAQATMPFH---VIADVRVLEPIEVLE-----DVRNVL-----FINND 174
Db 381 NTTFYQDPDKPTITTTNPTPTTVPINTAIINPIKTAADKTAVDIGDIITYITTFNNDG 440
Qy 175 NAPTMRVLCMLYTPLRASGSSGTDPPFVIAGRVLTCSPDFSEFLVPPNVEQTKPFSV 234
Db 441 TVPATNVI---FTDSIPAGTTFIPNSVVLNNPNVSPNSPALGIITVGLNPGETKILSEQV 497
Qy 235 -----PNLPLNTLSNSRVPSLI-----KSMVYSRD 259
Db 498 RVTQIPAGGTITNEASTITYTQDPDTLPPTTTEPTPTSVTVNTATVNPTKSADRAFAD 557
Qy 260 HGQMVQFQNGRVTLDGQLOGTTPTTSASOLCK--IRGSVF-----HANGNGY 304
Db 558 IGDIIITY-----TISLQNNGTVPATNIILTDPIPGNTTFIPNSVTINGISQPNPSTGI 612
Qy 305 NLTELDGS-----PYHAF-----ESPAP----- 322
Db 613 TVGTLDPTEAATISFQVQVISVPPHGLVENOGTVSFTHIVNPNPPTTKTPTKTETAV 672
Qy 323 ---IGFP-----DLGECDDWHEASPTTQFNTGDVQKINV-----KOESAFAPHL 364
Db 673 NTIISTPTKADKQLADIGD-----TIYITFRNGGVTPATNVTLDISTSGTTFIPDS 727
Qy 365 CTIQADGLSDVSNTNMIAKLWVSPVSDGHRGDVDPWPVPRYGSTLTLEAAQLAPPIYPP 424
Db 728 VTI--NGVTSFGNSPALGIGLTVA-----VGETKITTYQVLVTFNFP 768
Qy 425 GGEAIVFEMSDFFPIAHGTNGLSVF--CTIQEFVTHVNEQAPTRGAALLHYLDPDTH 482
Db 769 ---NGIIENQASFTYQYQPNPNEPPTTTPPNVNSINPNPPTTKTSADLQIAD----- 821
Qy 483 RNLGEFKLYPEGFMT--CVPNSSSGTGQTLPTINGVF----VFVSWVSRYQLK-----PVG 532
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Db 822 --IGDVTVTFTQNGKGTVPATNVTVQDSLPGQSVFVPSGVWINGISQLGENPEIGIPG 879  
QY 533 TAPG 536  
Db 880 TVNP 883

RESULT 10  
US-10-243-243A-8  
; Sequence 8, Application US/10243243A  
; GENERAL INFORMATION:  
; APPLICANT: Lloyd, Kenneth O.  
; APPLICANT: Yin, Beatrice W.T.  
; TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and Uses T  
; FILE REFERENCE: 649-B  
; CURRENT APPLICATION NUMBER: US/10/243,243A  
; CURRENT FILING DATE: 2002-09-19  
; PRIOR APPLICATION NUMBER: US 10/142,515  
; PRIOR FILING DATE: 2002-05-09  
; PRIOR APPLICATION NUMBER: PCT/US02/14768  
; PRIOR FILING DATE: 2002-05-09  
; PRIOR APPLICATION NUMBER: US 60/290,480  
; PRIOR FILING DATE: 2001-05-11  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 8  
; LENGTH: 5935  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(5935)  
; OTHER INFORMATION: Amino acid sequence of MUC16B  
US-10-243-243A-8

Query Match 3.7%; Score 108; DB 6; Length 5935;  
Best Local Similarity 18.3%; Pred. No. 34;  
Matches 99; Conservative 80; Mismatches 223; Indels 138; Gaps 22;

QY 5 SKDAPTNMDGTSGAGQLVPEANTAE-ISMPEVAGATAAATAGQVNMIDPWIMNNYVQA 63  
Db 431 SRTEALSLGRSTPG---PAQSTISPEISTETITRISTPLTTTGSABMTTPKTHGSGAS 487  
QY 64 PQGEFTISPNT---PGDILFDLQGLHPLNPFSLHQAQMYNG-----WVGNMKVK----- 110  
Db 488 SQGTFTLDTSSRASWPG---THSAATHRSPHSGMTTPMSRGPEDEVSWPSPVSEKTSPP 543  
QY 111 -VLLAGNATAGKII-----ISCIIPPGF- 132  
Db 544 SSLVLSAVTSPSPLYSTPSESSHSPRLVTSLFTPVMMKTTDMLDTSLEPVTSPPSMN 603  
QY 133 --AAONISIAQATM-----PPhVIADVRVLEPI--EV 160  
Db 604 ITSDESLSATSKATMETEAIQLSSENTAVTQMTISARQEFYSSYPGLPEPSKVTSPVVTSS 663  
QY 161 PLEDVRNVLHNDNAPTMR---VCMLYTPLRASGSS---SGTDPEVIAGRVLTCPSPD 214  
Db 664 TIKDIVSTTIPASSEITRIEMESTSLTPTPRETSTSQEIHSAKTPSTVPYKALTSATIE 723  
QY 215 FSFLFLVP-----PNVEQKTKPFSVPNPLNTLSNSRVPSLIKSMVSRDHGQWQFQNGR 270  
Db 724 DSNMTQVMSSSRGSPDQSTMSQDISFEVITRLSTSPIKTESTEMTITTTQSGPATSRGT 783  
QY 271 VTLDGQ---LOGTTPT-----SASQLCKIRG-----SVFHANGNGYNLTELD 310  
Db 784 LTLDSTTFMSGTHSTASQGFHSQMTALMSRTPGEPVWLSHPSEVEASAS--FSL- 839  
QY 311 GSPYHAFESPAPTFGPDLCGDWHMEASPTQFNTGDVIKQINV-----KQESAFAPHLG 365  
Db 840 -SPVMTSSSPVSTLPD-----SIHSSLPVTSLLTSLGLVKTELLGTSSEPETSSPNLS 894  
QY 366 TIQADGLSDVSVNTNMIKLGWSPVSDGHRGVDVPWIPRYGSTLTTEAAQLAPPIYPPG 425

Db 895 STSAEILLATTEVTTD--TEKLEMTNVVTSGYTHESPSSVLA--DSVTTTKATSSMGITPTG 951  
RESULT 11  
US-10-243-242B-8  
; Sequence 8, Application US/10243242B  
; GENERAL INFORMATION:  
; APPLICANT: Lloyd, Kenneth O.  
; APPLICANT: Yin, Beatrice W.T.  
; TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and US  
; FILE REFERENCE: 649-B  
; CURRENT APPLICATION NUMBER: US/10/243,242B  
; CURRENT FILING DATE: 2003-01-31  
; PRIOR APPLICATION NUMBER: US 10/142,515  
; PRIOR FILING DATE: 2002-05-09  
; PRIOR APPLICATION NUMBER: PCT/US02/14768  
; PRIOR FILING DATE: 2002-05-09  
; PRIOR APPLICATION NUMBER: US 60/290,480  
; PRIOR FILING DATE: 2001-05-11  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 8  
; LENGTH: 5935  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(5935)  
; OTHER INFORMATION: Amino acid sequence of MUC16B  
US-10-243-242B-8

Query Match 3.7%; Score 108; DB 6; Length 5935;  
Best Local Similarity 18.3%; Pred. No. 34;  
Matches 99; Conservative 80; Mismatches 223; Indels 138; Gaps 22;  
QY 5 SKDAPTNMDGTSGAGQLVPEANTAE-ISMPEVAGATAAATAGQVNMIDPWIMNNYVQA 63  
Db 431 SRTEALSLGRSTPG---PAQSTISPEISTETITRISTPLTTTGSABMTTPKTHGSGAS 487  
QY 64 PQGEFTISPNT---PGDILFDLQGLHPLNPFSLHQAQMYNG-----WVGNMKVK----- 110  
Db 488 SQGTFTLDTSSRASWPG---THSAATHRSPHSGMTTPMSRGPEDEVSWPSPVSEKTSPP 543  
QY 111 -VLLAGNATAGKII-----ISCIIPPGF- 132  
Db 544 SSLVLSAVTSPSPLYSTPSESSHSPRLVTSLFTPVMMKTTDMLDTSLEPVTSPPSMN 603  
QY 133 --AAONISIAQATM-----PPhVIADVRVLEPI--EV 160  
Db 604 ITSDESLSATSKATMETEAIQLSSENTAVTQMTISARQEFYSSYPGLPEPSKVTSPVVTSS 663  
QY 161 PLEDVRNVLHNDNAPTMR---VCMLYTPLRASGSS---SGTDPEVIAGRVLTCPSPD 214  
Db 664 TIKDIVSTTIPASSEITRIEMESTSLTPTPRETSTSQEIHSAKTPSTVPYKALTSATIE 723  
QY 215 FSFLFLVP-----PNVEQKTKPFSVPNPLNTLSNSRVPSLIKSMVSRDHGQWQFQNGR 270  
Db 724 DSNMTQVMSSSRGSPDQSTMSQDISFEVITRLSTSPIKTESTEMTITTTQSGPATSRGT 783  
QY 271 VTLDGQ---LOGTTPT-----SASQLCKIRG-----SVFHANGNGYNLTELD 310  
Db 784 LTLDSTTFMSGTHSTASQGFHSQMTALMSRTPGEPVWLSHPSEVEASAS--FSL- 839  
QY 311 GSPYHAFESPAPTFGPDLCGDWHMEASPTQFNTGDVIKQINV-----KQESAFAPHLG 365  
Db 840 -SPVMTSSSPVSTLPD-----SIHSSLPVTSLLTSLGLVKTELLGTSSEPETSSPNLS 894  
QY 366 TIQADGLSDVSVNTNMIKLGWSPVSDGHRGVDVPWIPRYGSTLTTEAAQLAPPIYPPG 425  
Db 895 STSAEILLATTEVTTD--TEKLEMTNVVTSGYTHESPSSVLA--DSVTTTKATSSMGITPTG 951

RESULT 12

US-10-243-243B-8  
; Sequence 8, Application US/10243243B  
; GENERAL INFORMATION:  
; APPLICANT: Lloyd, Kenneth O.  
; APPLICANT: Yin, Beatrice W.T.  
; TITLE OF INVENTION: Nucleic Acid Sequence Encoding Ovarian Antigen, CA125, and Uses Thereof  
; FILE REFERENCE: 649-B  
; CURRENT APPLICATION NUMBER: US/10/243,243B  
; CURRENT FILING DATE: 2003-01-31  
; PRIOR APPLICATION NUMBER: US 10/142,515  
; PRIOR FILING DATE: 2002-05-09  
; PRIOR APPLICATION NUMBER: PCT/US02/14768  
; PRIOR FILING DATE: 2002-05-09  
; PRIOR APPLICATION NUMBER: US 60/290,480  
; PRIOR FILING DATE: 2001-05-11  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 8  
; LENGTH: 5935  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(5935)  
; OTHER INFORMATION: Amino acid sequence of MUC16B  
US-10-243-243B-8

Query Match 3.7%; Score 108; DB 6; Length 5935;  
Best Local Similarity 18.3%; Pred. No. 34;  
Matches 99; Conservative 80; Mismatches 223; Indels 139; Gaps 22;  
QY 5 SKDAPNTMDGTGAGQLVPEANTAEIPSMPEVAGATAAATAGQVNMIDPIMNYYQA 63  
Db 431 SRTEALSLGRTSPG---PAQSTISPEISTEITRISTPLTTGSAEMITPKTGHSGAS 487  
QY 64 POGFTISPNT---PGDILFDLQGLHNPFLSHLAQYNG-----WVGNNMKV----- 110  
Db 488 SGTFTLDTSSRASWPG---THSAATHRSPHSGMTTPMSRGPEVSWPSRFSVETSP 543  
QY 111 -VLLAGNATAGKII-----ISCIPPGF- 132  
Db 544 SSLVLSUSATVSPSPLYSTPSESSHSPRLRVTSLSFTPVMMKTTDMLDTSLEPVTSPPSMN 603  
QY 133 --AAQNISIAQATM-----PPHVIADVRLVLEPI--EV 160  
Db 604 ITSDESLATSKATMETEATQISENTAVTQGTISARQEFYSSYPGLPEPSKVTSPPVVTSS 663  
QY 161 PLEDVRNVLPHNDNAPTMRK---VCMLYTPLRASGSS---SCTDPFVIAGRVLTCPSPD 214  
Db 664 TIKDIVSTTIPASSEITRIEMESTLTPTPRETSTSQEIHSAKPKSTVPYKALTSATIE 723  
QY 215 FSEFLVP---PNVEQKTKPFVNPVLPLNTLSNRVPSLTKSMVSRDHQGVQFONGR 270  
Db 724 DSMTQWSSSRGSPSPQOSTMSQDISTEIVTRLSTSPKIKTESTEMTITQTGSPCATSRGT 783  
QY 271 VTLDGO---LQGTTP-----SASQLCKIRG-----SVFHANGNGYNLTELD 310  
Db 784 LTLDSTTFNSGTHSTASQGFHSQMTALMSRTPGEVPWLSHPSEVEASSAS-FSLSS--- 839  
QY 311 GSPYHAFESAPAGTFFDLGECDDHMEASPTQNTGDVTKQINV-----KQESAFAPHLG 365  
Db 840 -SPVMTSSSPVSTLPD-----SIHSSSLPVTSLTSLGLVKTTELLOSTSSPPTSSPPNLS 894  
QY 366 TIOADGLSDVSVNTMIKLGWSPVSDGHRGDVDPWVPIRYGSTLTETAAQLAPPYPPG 425  
Db 895 STSAEILLATTEVTD-TEKLEMTNVVTSYTHSPSSVLA--DSVTTKATSSMGITYPTG 951

RESULT 13

US-10-282-122A-66108  
; Sequence 66108, Application US/10282122A  
; GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282.122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 66108  
; LENGTH: 2703  
; TYPE: PRT  
; ORGANISM: Neisseria meningitidis  
US-10-282-122A-66108

Query Match 3.7%; Score 107.5; DB 6; Length 2703;  
Best Local Similarity 21.9%; Pred. No. 12;  
Matches 109; Conservative 59; Mismatches 177; Indels 153; Gaps 27;  
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Db 81 IVADKSAPAOQQTILQGTNG--IPQVNIQTPTS---AGVS-----VN 118  
QY 59 NVYQAPQGEFTISPNTPGDILFDLQGLPHL--NPFL-----SHLAQYNG 102  
Db 119 QYAFDVGNRGAILNNSRNT--QTQLGWIQGNPLARGEARVVVNQINSHSSOL-NG 175  
QY 103 W--VGNMKVKVLLA-----GNAFTAGKIICIPPGFAAQNIS---IAQATMFPHV 148  
Db 176 YIEVGRRRAEVVIANPAGIAVNGGGFINASRATLTAAQYQAGDLGSGFKIRQNV---V 232  
QY 149 IA----DVRVLEPIEVPLEDVRNVLPHNDNAPTMRKLCMLYTPLRASGSSSGTDPFVIA 204  
Db 233 IAGHGLDAR-----DTDYTRLISYHKSIDAPVW-----GQDVRVVA 268  
QY 205 GRYLTCPSPDFSLFVPPNVEQKTKPFSPVN---LPLNTLSNRVPSLI--KSMVSS-- 257  
Db 269 GQNDVAATGDAHSPI--NNAANTSNNTANNNGTHIPLFAIDTGKLGGMAYANKITLISV 326  
QY 258 -----RDHGO-MVQFONGRVTLTGQLOGTTPTSASQLCKIRGSVFHANGN---GYNLITE 308  
Db 327 EQAGIRNOGQWFAAGNVAVNAEGKLVNT-----GMIAATGENHAVSLHARN 373



QY	309	LDGSPYHAFESPAPIGFPDGLGECDHWEASPTTQFTGDIKQINVKQESAFAPHLGTTQ	366
Db	374	VHNSGTVASQDDANIHSQTLDNSGTVLLSGRLTVRNLGRLKQNN-----GTIQ	422
QY	369	ADGLSDSVS-----NTNMIKLG-----WSPVSDGHRGDV-----DPWVIPRY	407
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Db	482	PSTATGSGSTVSVKPG	499
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PCT-US02-33645-26			
; Sequence 26, Application PC/TUS0233645			
; GENERAL INFORMATION:			
; APPLICANT: The Trustees of the University of Pennsylvania			
; APPLICANT: Wilson, James M.			
; APPLICANT: Gao, Guangping			
; APPLICANT: Roy, Soumitra			
; TITLE OF INVENTION: Simian Adenovirus Nucleic Acid and Amino Acid Sequences			
; TITLE OF INVENTION: Containing Same, and Methods of Use			
; FILE REFERENCE: UPN-02677PCT			
; CURRENT APPLICATION NUMBER: PCT/US02/33645			
; CURRENT FILING DATE: 2002-11-20			
; PRIOR APPLICATION NUMBER: US 60/331,951			
; PRIOR FILING DATE: 2001-11-21			
; PRIOR APPLICATION NUMBER: US 60/366,798			
; PRIOR FILING DATE: 2002-03-22			
; NUMBER OF SEQ ID NOS: 39			
; SOFTWARE: Patent version 3.1			
; SEQ ID NO 26			
; LENGTH: 931			
; TYPE: PRT			
; ORGANISM: simian adenovirus SV-1			
PCT-US02-33645-26			
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Best Local Similarity 19.2%; Pred. No. 3;			
Matches 105; Conservative 68; Mismatches 226; Indels 147; Gaps			
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QY	63	APQGEFTISPNNTPG---DILEDQLGPHLNFL---SHLAQMYNGWGNKMYKVLLA	114
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QY	115	GNAPTAGKIIISCIPPFAGAAQNTSIAQAMFPHV-----TADVRVLEP	157
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QY	158	IEVPLEDRVNLFHNDNNAFTMLVCLYTPPLRASGSSG--TDPFVIAGRVLTCPSPDF	215
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QY	216	SFLFLVPNPVEQKT-RPFSPVNLPLN-----TLSNSRVPSLIKSMWVRDHQGMVQFO	267
Db	436	--MFAMEINLQANLWRSFLYSNIGLYLPDSKLTIPDNITLP-----ENKNTQYM	483
QY	268	NGRVTLDGQLGTTPTTSASQLCKIRGSV-----PHANGGNCYNLTLDGSPYHAFESPAP	323
Db	484	NGRVTPEGLVDVTVYNGARWSPDVMDSINPFNIHRNAGLAYRSMLLCNGRYVPFHLOVQ	543
QY	324	GF-----PDLGECDHWEASPTTQFTGDIKQINVKQESAFAPHLGTTQADGLSD	374
Db	544	KFFAIKNLLLLPGSYTYENFR-----KDVNMLQSSLG---NDLRVDGASI	587
QY	375	VSUNTNNIAKLGWSPVSDGHRGDVDPWVIPRYGSTLTETRAAQLAPPIPPGGEALVFM	434
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Search completed: March 10, 2003, 19:04:16  
Job time : 48 secs

GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: March 10, 2003, 18:26:21 ; Search time 143 Seconds

(without alignments)  
2457.200 Million cell updates/sec

Title: US-09-926-799-1

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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- 3: /cgn2\_6/ptodata/2/paa/US07\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/paa/US08\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/paa/US081\_COMB.pep.\*
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- 8: /cgn2\_6/ptodata/2/paa/US084\_COMB.pep.\*
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- 10: /cgn2\_6/ptodata/2/paa/US086\_COMB.pep.\*
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- 23: /cgn2\_6/ptodata/2/paa/US099\_COMB.pep.\*
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- 25: /cgn2\_6/ptodata/2/paa/US101\_COMB.pep.\*
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- 27: /cgn2\_6/ptodata/2/paa/US60\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2605.5	90.0	544	6	US-08-273-257-8
3	1979	68.3	544	23	US-09-926-799-4
4	1977.5	68.3	546	23	US-09-926-799-3
5	1950	67.3	530	3	US-07-696-454-3
6	1950	67.3	530	3	US-07-941-365C-3

7	1950	67.3	530	3	US-07-941-365E-3	Sequence 3, Appli
8	1950	67.3	530	7	US-08-386-365-3	Sequence 3, Appli
9	1950	67.3	530	8	US-08-486-049-3	Sequence 3, Appli
10	1938	66.9	530	23	US-09-926-799-2	Sequence 2, Appli
11	1225	42.3	540	23	US-09-926-799-7	Sequence 7, Appli
12	1184.5	40.9	548	6	US-08-273-257-5	Sequence 5, Appli
13	1178.5	40.7	548	6	US-09-926-799-6	Sequence 6, Appli
14	1176.5	40.6	535	6	US-08-273-257-11	Sequence 11, Appli
15	1174.5	40.6	535	23	US-09-926-799-8	Sequence 8, Appli
16	1172.5	40.5	542	23	US-09-926-799-9	Sequence 9, Appli
17	1157.5	40.0	539	23	US-09-926-799-5	Sequence 5, Appli
18	1154.5	39.9	550	23	US-09-926-799-10	Sequence 10, Appli
19	1013	35.0	541	23	US-09-926-799-11	Sequence 11, Appli
20	316	10.9	576	21	US-09-791-537-68473	Sequence 68473, A
21	315	10.9	576	21	US-09-791-537-92267	Sequence 92267, A
22	311	10.7	576	21	US-09-791-537-25489	Sequence 25489, A
23	289	10.0	861	21	US-09-791-537-61752	Sequence 61752, A
24	287.5	9.9	691	21	US-09-791-537-143497	Sequence 143497, A
25	285	9.8	626	1	PCT-US00-15750-7	Sequence 7, Appli
26	285	9.8	770	21	US-09-791-537-146166	Sequence 146166, A
27	282.5	9.8	863	21	US-09-791-537-143865	Sequence 143865, A
28	277	9.6	565	21	US-09-791-537-110580	Sequence 110580, A
29	276	9.5	547	19	US-09-521-738-4	Sequence 4, Appli
30	276	9.5	671	19	US-09-521-738-2	Sequence 2, Appli
31	272.5	9.4	669	20	US-09-617-594-2	Sequence 2, Appli
32	272.5	9.4	669	20	US-09-617-594A-2	Sequence 2, Appli
33	272	9.4	623	1	PCT-US00-15750-4	Sequence 4, Appli
34	272	9.4	668	20	US-09-617-594-4	Sequence 4, Appli
35	272	9.4	668	20	US-09-617-594A-4	Sequence 4, Appli
36	269	9.3	623	1	PCT-US00-15750-2	Sequence 2, Appli
37	262.5	9.1	622	1	PCT-US00-15750-6	Sequence 6, Appli
38	149.5	5.2	878	21	US-09-791-537-151872	Sequence 151872, A
39	147	5.1	878	21	US-09-791-537-151869	Sequence 151869, A
40	143.5	5.0	878	21	US-09-791-537-13397	Sequence 13397, A
41	142.5	4.9	878	21	US-09-791-537-13415	Sequence 13415, A
42	137.5	4.7	912	21	US-09-791-537-79633	Sequence 79633, A
43	135.5	4.7	879	21	US-09-791-537-76207	Sequence 76207, A
44	128.5	4.4	613	21	US-09-791-537-109700	Sequence 109700, A
45	128	4.4	889	21	US-09-791-537-42411	Sequence 42411, A

ALIGNMENTS

RESULT 1  
US-09-926-799-1  
; Sequence 1, Application US/09926799  
; GENERAL INFORMATION:  
; APPLICANT: TAKEDA, NAKAZU  
; APPLICANT: NATORI, KATSURO  
; APPLICANT: MIYAMURA, TATSUO  
; APPLICANT: KAMATA, KUNIO  
; APPLICANT: SATO, TOSHINORI  
; APPLICANT: SATO, SEIYA  
; TITLE OF INVENTION: Detection kit for SRSV  
; FILE REFERENCE: 217039USOXPCT  
; CURRENT APPLICATION NUMBER: US/09/926,799  
; CURRENT FILING DATE: 2002-03-29  
; PRIOR APPLICATION NUMBER: JP 11175928  
; PRIOR FILING DATE: 1999-06-22  
; PRIOR APPLICATION NUMBER: JP 11-175928  
; PRIOR FILING DATE: 1999-06-22  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 545  
; TYPE: PRT  
; ORGANISM: ARTIFICIAL SEQUENCE  
; FEATURE:  
; OTHER INFORMATION: SYNTHETIC PEPTIDE  
US-09-926-799-1

Query Match 100.0% Score 2896; DB 23; Length 545;

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; Best Local Similarity 100.0%; Pred. No. 9,1e-270;
Matches 545; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MMASKDAPTNMDGTSGAGQLVPEANTAEPI SMEPVAGAATAAATAGOVNMIDPWIMNNY 60
DB 1 MMASKDAPTNMDGTSGAGQLVPEANTAEPI SMEPVAGAATAAATAGOVNMIDPWIMNNY 60
QY 61 VQAPQGETTISPNTPGDILFDLQGLPHLNPFLSHLAQMYNGWGNMKVKVLLAGNAFTA 120
DB 61 VQAPQGETTISPNTPGDILFDLQGLPHLNPFLSHLAQMYNGWGNMKVKVLLAGNAFTA 120
QY 121 GKIIISCIIPGFAAQNISIAQATMFPHVIADRVLEPIEVPLEDVRNVLFHNNDNAPTMR 180
DB 121 GKIIISCIIPGFAAQNISIAQATMFPHVIADRVLEPIEVPLEDVRNVLFHNNDNAPTMR 180
QY 181 LVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSEFLFVPPNVEQTKPFVSPNPLN 240
DB 181 LVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSEFLFVPPNVEQTKPFVSPNPLN 240
QY 241 TLSNRPVSLIKSMVSRDHQGMVQFNGRVTLDGQLQGTTPTSASQLCKIRGSVFHANG 300
DB 241 TLSNRPVSLIKSMVSRDHQGMVQFNGRVTLDGQLQGTTPTSASQLCKIRGSVFHANG 300
QY 301 GNGYNLTDELDSGYHAFESPAPIGPDLGECDDHWEASPTTFQNTGDVVIKQINVKQESAF 360
DB 301 GNGYNLTDELDSGYHAFESPAPIGPDLGECDDHWEASPTTFQNTGDVVIKQINVKQESAF 360
QY 361 APHLCTIOADGLSDVSVNTMIKLGWSPVSDGHRGVDVDPWIPRYGSTLTTEAAQLAPP 420
DB 361 APHLCTIOADGLSDVSVNTMIKLGWSPVSDGHRGVDVDPWIPRYGSTLTTEAAQLAPP 420
QY 421 IYPGFGGAIYVFFMSDFPIAHGTNGLSVPCITPQEFVTHFVNEQAPTRGEAALLHYLDPD 480
DB 421 IYPGFGGAIYVFFMSDFPIAHGTNGLSVPCITPQEFVTHFVNEQAPTRGEAALLHYLDPD 480
QY 481 THRNLFGEKLYPEGMTCVPNSGTPQTLPLNGVVFVSVWSRYQLKPVGTAGPACRL 540
DB 481 THRNLFGEKLYPEGMTCVPNSGTPQTLPLNGVVFVSVWSRYQLKPVGTAGPACRL 540
QY 541 GIRRS 545
DB 541 GIRRS 545

RESULT 2
US-08-273-257-8
; Sequence 8, Application US/08273257
; GENERAL INFORMATION:
; APPLICANT: LEW, Judy F.
; APPLICANT: GREEN, Kim Y.
; APPLICANT: VALDESUSO, Jose
; TITLE OF INVENTION: Calicivirus capsid genes and their uses
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: Steuart Street Tower, One Market Plaza
; CITY: San Francisco
; STATE: California
; COUNTRY: US
; ZIP: 94105-1493
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/273,257
; FILING DATE: 11-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 15280-209
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; REFERENCE/DOCKET NUMBER: DHHS Ref. No. E-163-94/0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 544 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-273-257-8

Query Match 90.0%; Score 2605.5; DB 6; Length 544;
Best Local Similarity 89.2%; Pred. No. 1e-241;
Matches 486; Conservative 24; Mismatches 34; Indels 1; Gaps 1;

QY 1 MMASKDAPTNMDGTSGAGQLVPEANTAEPI SMEPVAGAATAAATAGOVNMIDPWIMNNY 60
DB 1 MMASKDAPTNMDGTSGAGQLVPEANTAEPI SMEPVAGAATAAATAGOVNMIDPWIMNNY 60
QY 61 VQAPQGETTISPNTPGDILFDLQGLPHLNPFLSHLAQMYNGWGNMKVKVLLAGNAFTA 120
DB 61 VQAPQGETTISPNTPGDILFDLQGLPHLNPFLSHLAQMYNGWGNMKVKVLLAGNAFTA 120
QY 121 GKIIISCIIPGFAAQNISIAQATMFPHVIADRVLEPIEVPLEDVRNVLFHNNDNAPTMR 180
DB 121 GKIIISCIIPGFAAQNISIAQATMFPHVIADRVLEPIEVPLEDVRNVLFHNNDSPTMR 180
QY 181 LVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSEFLFVPPNVEQTKPFVSPNPLN 240
DB 181 LVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSEFLFVPPNVEQTKPFVSPNPLN 240
QY 241 TLSNRPVSLIKSMVSRDHQGMVQFNGRVTLDGQLQGTTPTSASQLCKIRGSVFHANG 300
DB 241 TLSNRPVSLINAMISRDHGQMVQFNGRVTLDGQLQGTTPTSLSQLCKIRGVFHASG 300
QY 301 GNGYNLTDELDSGYHAFESPAPIGPDLGECDDHWEASPTTFQNTGDVVIKQINVKQESAF 360
DB 301 GNGYNLTDELDSGYHAFESPAPIGPDLGECDDHWEASPTTFQNTGDVVIKQINVKQESAF 360
QY 361 APHLCTIOADGLSDVSVNTMIKLGWSPVSDGHRGVDVDPWIPRYGSTLTTEAAQLAPP 420
DB 361 APHLGHVQADNLS-AGANTDLIVSLWSLSPVSDQHRHDVDPWIPRYGSSLTTEAAQLAPP 419
QY 421 IYPGFGGAIYVFFMSDFPIAHGTNGLSVPCITPQEFVTHFVNEQAPTRGEAALLHYLDPD 480
DB 420 IYPGFGGAIYVFFMSDFPVVSGVNGMRIPCTLPQEVVAHFVNEQAPTRGEAALLHYLDPD 479
QY 481 THRNLFGEKLYPEGMTCVPNSGTPQTLPLNGVVFVSVWSRYQLKPVGTAGPACRL 540
DB 480 THRNLFGEKLYPEGMTCVPNSGSGGQTLPINGVVFVSVWSRYQLKPVGTAGPARRL 539
QY 541 GIRRS 545
DB 540 GIRRS 544

RESULT 3
US-09-926-799-4
; Sequence 4, Application US/09926799
; GENERAL INFORMATION:
; APPLICANT: TAKEDA, NAKAZU
; APPLICANT: NATORI, KATSURO
; APPLICANT: MIYAMURA, TATSUO
; APPLICANT: KAMATA, KUNIO
; APPLICANT: SATO, TOSHINOBU
; APPLICANT: SATO, SEIYA
; TITLE OF INVENTION: Detection Kit for SRSV
; FILE REFERENCE: 217039USOXPT
; CURRENT APPLICATION NUMBER: US/09/926,799
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: JP 11175928
; PRIOR FILING DATE: 1999-06-22
```

; PRIOR APPLICATION NUMBER: JP 11-175928  
; PRIOR FILING DATE: 1999-06-22  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 4  
; LENGTH: 544  
; TYPE: PRT  
; ORGANISM: ARTIFICIAL SEQUENCE  
; FEATURE:  
; OTHER INFORMATION: SYNTHETIC PEPTIDE  
US-09-926-799-4

Query Match 68.3%; Score 1979; DB 23; Length 544;  
Best Local Similarity 66.8%; Pred. No. 3.3e-181;  
Matches 368; Conservative 68; Mismatches 101; Indels 14; Gaps 6;

QY 1 MMASKDAPTNMDGTSAGAGQLVPEANTAEPTISMEPVAGAAATAAGQVNMIDPWIMNNY 60  
DB 1 MMASKDAPTSADGATGAGQLVPEVNTADPIDPVAGSSTALATAGQVNLIDPWIIINF 60

QY 61 VOAPQGEFTISPNNTPGDILFDLQGLPHLNPFLSHLAQMYNGWGNMKYKVLGAGNAFTA 120  
DB 61 VOAPQGEFTISPNNTPGDILFDLQGLPHLNPFLSHLSQMYNGWGNMVRVVLGAGNAFTA 120

QY 121 GKIIISCIPIPPGAAQNIISIAQATMPHVIADVRVLEPIEVLPLEDRVNLFFHNDNAPTMR 180  
DB 121 GKVIICCVPPGQSRFLSIAQATLPPHVIADVRTLDPEVPLEDRVNLFFHNDTQPTMR 180

QY 181 LVCMLYTLRASGSSSGTDPFVIAGRVLTCPSPDFSEFLFLYPNVVEOKTKPFSVNLPLN 240  
DB 181 LVCMLYTLRTGASGGTDSFVAVAGRVLTCPGPDNFELFLVPTVEOKTRPTVNPILK 240

QY 241 TILSNRVPSLIKSMVSRDHGMQVQFONGRVTLDGLOGCTTPTTSASQLCKIRGVSFHANG 300  
DB 241 YLSNRIENPIEGMSLSDPTQNVQFONGRCTIDQPLGTTTPVVSQLCCKFGRIT--TSG 298

QY 301 GNGYNLTLDGSPYHAFESPAPIGPFDLGECDWHMEAS--PTQFNTGQDVIKQINVKQES 358  
DB 299 QRVNLTELDGSPFAFAAPAGPDLGSCDWHIEMSKIPNSSTQNNPIVNTSVKPNQ 358

QY 359 AFAPHLGTTQADGLSDVSVNTNMIAGLVSPVSDGHRGDDVPWIPRYGSLTTEAAQLA 418  
DB 359 QVPHLSLITLD--ENVSSGGYIGCTIQWTSPPSDSGGANTFWKIPDYGSSLASQALA 416

QY 419 PPIYPGGEALIVFMSDFPIAHGTNGLS---VPCITPOEFVTHFVNEQAPTRGEAALL 474  
DB 417 PAVYPPGNEVIVFMAPI---GPNQSCSPNLVFCLLPQEQYITHFISEQADPIQGEAALL 473

QY 475 HYLDPDTHRNLEGEFKLYPEGEMTCVPNSSGGTGQPTLPINGVFVSVWSRYOLKPVGTA 534  
DB 474 HYVDPDTHRNLEGEFKLYPGGYLTCVPNSSSTGPOQLPLDGVFVFAVSWVSRYOLKPVGTA 533

QY 535 GPA-CRLGIRR 544  
DB 534 GPARGRLGVRR 544

RESULT 4  
US-09-926-799-3  
; Sequence 3, Application US/09926799  
; GENERAL INFORMATION:  
; APPLICANT: TAKEDA, NAOKAZU  
; APPLICANT: NATORI, KATSURO  
; APPLICANT: MIYAMURA, TATSUO  
; APPLICANT: KAWATA, KUNIO  
; APPLICANT: SATO, TOSHINORI  
; APPLICANT: SATO, SEIYA  
; TITLE OF INVENTION: Detection kit for SRSV  
; FILE REFERENCE: 217039USOXPCT  
; CURRENT APPLICATION NUMBER: US/09/926,799  
; CURRENT FILING DATE: 2002-03-29  
; PRIOR APPLICATION NUMBER: JP 11175928  
; PRIOR FILING DATE: 1999-06-22

; PRIOR APPLICATION NUMBER: JP 11-175928  
; PRIOR FILING DATE: 1999-06-22  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 546  
; TYPE: PRT  
; ORGANISM: ARTIFICIAL SEQUENCE  
; FEATURE:  
; OTHER INFORMATION: SYNTHETIC PEPTIDE  
US-09-926-799-3

Query Match 68.3%; Score 1977.5; DB 23; Length 546;  
Best Local Similarity 66.6%; Pred. No. 4.6e-181;  
Matches 367; Conservative 76; Mismatches 95; Indels 13; Gaps 7;

QY 1 MMASKDAPTNMDGTSAGAGQLVPEANTAEPTISMEPVAGAAATAAGQVNMIDPWIMNNY 60  
DB 1 MMASKDAPQSDAGAGAGQLVPEVNTADPLPMEPVAGPTTAVATAGOVNMIDPWIVNNF 60

QY 61 VOAPQGEFTISPNNTPGDILFDLQGLPHLNPFLSHLAQMYNGWGNMKYKVLGAGNAFTA 120  
DB 61 VOSPOGEFTISPNNTPGDILFDLQGLPHLNPFLSHLSQMYNGWGNMVRVILLAGNAFTA 120

QY 121 GKIIISCIPIPPGAAQNIISIAQATMPHVIADVRVLEPIEVLPLEDRVNLFFHNDNAPTMR 180  
DB 121 GKIIICCVPPGPTSSSLTIAQATLPPHVIADVRTLEPIEMPLEDRVNLFFHNDNQTMR 180

QY 181 LVCMLYTLRASGSSSGTDPFVIAGRVLTCPSPDFSEFLFLYPNVVEOKTKPFSVNLPLN 240  
DB 181 LVCMLYTLRTGCGGNSDSFVAVAGRVLTAPSSDFSFLFLVPPPTIPQKTRAFVNPILQ 240

QY 241 TILSNRVPSLIKSMVSRDHGMQVQFONGRVTLDGLOGCTTPTTSASQLCKIRGVSFHANG 300  
DB 241 TILSNRFPGLIOGMILSPDASQVQVQFONGRCLIDGGLGTTTPATSQLFVRGKI--NQG 298

QY 301 GNGYNLTLDGSPYHAFESPAPIGPFDLGECDWHMEASPT--TQFNTGQDVIKQINVKOE-S 358  
DB 299 ARTLNLTEVDGPPFMAFADSPAPVGPFDGCKDWHMRISKTPNNTSSGDPMSRSYSVQTNVQ 358

QY 359 AFAPHLGTTQADGLSDVSVNTNMIAGLVSPVSDGHRGDDVPWIPRYGSLTTEAAQLA 418  
DB 359 GFVPHLGSQFQDFVFNHPTG-DYIGTIEWISQSTPPGTIDINLWEIPDYGSSLSQAALL 417

QY 419 PPIYPGGEALIVFMSDFPIAHGTNGLS---VPCITPOEFVTHFVNEQAPTRGEAALL 474  
DB 418 PVVFPFGCEALVYFVSAPF---GPNRSAPNDVPCLLPQEQYITHFVSEQAPTMGDALL 474

QY 475 HYLDPDTHRNLEGEFKLYPEGEMTCVPNSSGGTGQPTLPINGVFVSVWSRYOLKPVGTA 534  
DB 475 HYVDPDTHRNLEGEFKLYPGGYLTCVPNGVAGPQQLPLNGVFLVSWVSRYOLKPVGTA 534

QY 535 GPA-CRLGIRR 544  
DB 535 STARSRLGVRR 545

RESULT 5  
US-07-696-454-3  
; Sequence 3, Application US/07696454  
; GENERAL INFORMATION:  
; APPLICANT: Estes, Mary K.  
; APPLICANT: Jiang, Xi  
; APPLICANT: Graham, David Y.  
; TITLE OF INVENTION: Methods and Reagents to Detect and  
; TITLE OF INVENTION: Characterize Norwalk and Related Viruses.  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Patent Department, Fulbright & Jaworski  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA

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; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect converted to DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/696,454
; FILING DATE: 19910506
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Launer, Charlene A.
; REGISTRATION NUMBER: 33,035
; REFERENCE/DOCKET NUMBER: D-5179CIP-3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 651-3634
; TELEFAX: (713) 651-5246
; TELEX: Western Union 762829
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 530 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-696-454-3

Query Match 67.3%; Score 1950; DB 3; Length 530;
Best Local Similarity 67.0%; Pred. No. 2e-178;
Matches 366; Conservative 66; Mismatches 96; Indels 18; Gaps 7;

QY 1 MMASKADPTNMDGTSGAGQLVPEANTAEPISEMPVAGAAATAAGQVNMIDPWIMNYY 60
DB 1 MMASKDATSSVDGASGAGQLVPEVNASDPLAMPVAGSSTAVATAGQVNPDPWIIINNF 60

QY 61 VOAPGERTISPNNTPGDILFDLQGLPHLNPFLSHLAQYNGWGNMKVKVLLAGNAFTA 120
DB 61 VOAPGERTISPNNTPGDVLFDLSGLPHLNPFLHLSQYNGWGNMVRIMLAGNAFTA 120

QY 121 GKIIISCIPIPGFAAONISIAQATMPPHVIADRVLEPIEVPLEDVRNVLFNHND-NAPTM 179
DB 121 GKIIISCIPIPGFSHNLTAQATLPPHVIADRVTLDPLEVPLEDVRNVLFNHNDNRNQTM 180

QY 180 RLVCMLYTLRASGSSGTDPPFVIAGRVLTCPSPDFSEFLFVPPNVEOKTKPESVFNPL 239
DB 181 RLVCMLYTLRTGGGTG--DSEFVAGRVMTCPSPDFNLFVPPVEQKTRFTPLNPL 238

QY 240 NTLNSRVPSLIKSMVSRDHQVMQVQFNGRVTLDGQLQCTTPTSASQLCKIRGSVFHAN 299
DB 239 SSLSNSRAPLPISSMGISPDNVQSVQFNGRCTLGRLVGTTPVSLSHVAKIRGT---S 294

QY 300 GGNGYNLTLDGSPYHAFESPAPIGPFDLGECDWHMEASPTQFNTGDIKQINVKQESA 359
DB 295 NGTVINLTLDGTPPHFEGPAPIGPFDLGGCDWHIN---MTQFGHSSQTYQDVTTPDT 351

QY 360 FAPHLGTIOADGLSDVSVNTNMIKLGWSPVSDGHRGDVDPWVTPRYGSTLTAAQALAP 419
DB 352 FVPHLGSIQANGIG---SGNYVGVLSWISPPSPSGSQVDLWKIPNYGSSITEATHLAP 407

QY 420 PIYPGFGGAIFEFMSDFPIAHGTNGLSVPCITPEVTFHVEYNEQAPTGEAALHYLDP 479
DB 408 SVYPPGFGVLPVFMKMP---GPGAYNLPCLLPQEYISHLASEQAPTVEAALLHYVDP 464

QY 480 DTHRNLTGKFLYEGEFTWCVPNSSGTGPQTLPINGVYFVSVNVSREYQKLPVCTAGPA-C 538
DB 465 DTGRNLGEFKAYPDGFLTCVPNGASSGPQOLPIGVFVSVNVSREYQKLPVCTASSARG 524

QY 539 RLGIIR 544
DB 525 RLGLRR 530

RESULT 6
US-07-941-365C-3

; Sequence 3, Application US/07941365C
; GENERAL INFORMATION:
; APPLICANT: Matson, David O
; APPLICANT: Estes, Mary K
; APPLICANT: Jiang, Xi
; APPLICANT: Graham, David Y
; TITLE OF INVENTION: Methods and Reagents to Detect and
; TITLE OF INVENTION: Characterize Norwalk and Related Viruses
; NUMBER OF SEQUENCES: 75
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski Patent Dept
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/941,365C
; FILING DATE: 19920908
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Launer, Charlene A
; REGISTRATION NUMBER: 33,035
; REFERENCE/DOCKET NUMBER: D-5526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-651-3634
; TELEFAX: 713-651-5246
; TELEX: Western Union 762829
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 530 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-941-365C-3

Query Match 67.3%; Score 1950; DB 3; Length 530;
Best Local Similarity 67.0%; Pred. No. 2e-178;
Matches 366; Conservative 66; Mismatches 96; Indels 18; Gaps 7;
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QY 420 PLYPGFGAIVFFMSDFPIAHGTNGLSVPCITPOEFVTHFVNEQAPTRGEAALLHYLDP 479
Db 408 SYPPGFGVLFVFFMSKMP---GPGAYNLPCULLPOEYISHLASEQAPTVGEAALLHYVDP 464
QY 480 DTHRLNGEFLKYPEGFMTCVPNSSCTGQTLDPINGVFEVFSVSRFYQLKPVGTAGPA-C 538
Db 465 DTGRNLGEFKAYPDGFLTCVPNGASSGPOQLPINGVFEVFSVSRFYQLKPVGTASSARG 524
QY 539 RLGIIR 544
Db 525 RLGLRR 530

RESULT 7
US-07-941-365E-3
; Sequence 3, Application US/07941365E
; GENERAL INFORMATION:
; APPLICANT: Matson, David O
; APPLICANT: Estes, Mary K
; APPLICANT: Jiang, Xi
; APPLICANT: Graham, David Y
; TITLE OF INVENTION: Methods and Reagents to Detect and
; TITLE OF INVENTION: Characterize Norwalk and Related Viruses
; NUMBER OF SEQUENCES: 82
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski Patent Dept
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/941.365E
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Launer, Charlene A
; REGISTRATION NUMBER: 33,035
; REFERENCE/DOCKET NUMBER: D-5526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-651-3634
; TELEFAX: 713-651-5246
; TELEX: Western Union 762829
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 530 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-941-365E-3

Query Match 67.3%; Score 1950; DB 3; Length 530;
Best Local Similarity 67.0%; Pred. No. 2e-178;
Matches 366; Conservative 66; Mismatches 96; Indels 18; Gaps 7;

QY 1 MMASKDAPTNMDGTSAGQOLVPEANTAEPISEMPVAGATAAATAGQVNMIDPWIMNNY 60
Db 1 MMASKDATSSVDGASGAGQOLVPEVNASDPLAMDVPAGSSTAVATAGVNPIDPWIIINF 60
QY 61 VOAPQGEFTISNPTPGDILDLQGLPHNLPSLHAQMYNGWGNMKVYKVLLAGNAFTA 120
Db 61 VOAPQGEFTISNPTPGDILDLQGLPHNLPSLHAQMYNGWGNMKVYKVLLAGNAFTA 120
QY 121 GKIIISCIPPGFAAONISTAQATMEPHVITADVRLVPLEVPLEVRLVFNHND-NAPTM 179
Db 121 GKIIIVSCIPPGFNHLTAQATLPHVITADVRLVPLEVPLEVRLVFNHNDNRQQT 180
QY 180 RLVCMLYTPLRASGSSSGTDPEVIAGRVLTCPSPDFSLFLVPPNVQKTKPFSVPNLPL 239
```

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Db 181 RLVCMLYTPLRTGGTG--DSFVAVAGRVMTCPSPDFNFLVLPPTVEQKTRPTLPLNPL 238
QY 240 NTLNSRVSPLIKSMVSRDGHGOMVOFONGRVTLDGLOGCTTPTASOLCKIRGVSFHAN 299
Db 239 SSLNSRAPLPTISMGISPDNVOSVONGRCTLDRGLVGTTPVLSHVAKIRGT----S 294
QY 300 GGNYNLTLDGSPYHAFESPAPIGFDLGCEDMHEASPTTQFNTGDVIKQINVKOESA 359
Db 295 NGTVINLTLDGTPFHPFEGPAPIGFDLGGCDMHN---MTQGHSSQTOYDVTTPDT 351
QY 360 FAPHLCTIQADGLSDVSNTNMIAKLGWVSPVSDGHRGVDVDPVPIPRYGSTLTFAAQLAP 419
Db 352 FVPHLGSIQANGIG---SGNYVGVLSWISPPSHPSQSDVLDLWKIPNYGSSITEATHLAP 407
QY 420 PLYPGFGAIVFFMSDFPIAHGTNGLSVPCITPOEFVTHFVNEQAPTRGEAALLHYLDP 479
Db 408 SYPPGFGVLFVFFMSKMP---GPGAYNLPCULLPOEYISHLASEQAPTVGEAALLHYVDP 464
QY 480 DTHRLNGEFLKYPEGFMTCVPNSSCTGQTLDPINGVFEVFSVSRFYQLKPVGTAGPA-C 538
Db 465 DTGRNLGEFKAYPDGFLTCVPNGASSGPOQLPINGVFEVFSVSRFYQLKPVGTASSARG 524
QY 539 RLGIIR 544
Db 525 RLGLRR 530

RESULT 8
US-08-386-365-3
; Sequence 3, Application US/08386365
; GENERAL INFORMATION:
; APPLICANT: Matson, David O
; APPLICANT: Estes, Mary K
; APPLICANT: Jiang, Xi
; APPLICANT: Graham, David Y
; TITLE OF INVENTION: Methods and Reagents to Detect and
; TITLE OF INVENTION: Characterize Norwalk and Related Viruses
; NUMBER OF SEQUENCES: 82
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski Patent Dept
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,365
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Launer, Charlene A
; REGISTRATION NUMBER: 33,035
; REFERENCE/DOCKET NUMBER: D-5526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-651-3634
; TELEFAX: 713-651-5246
; TELEX: Western Union 762829
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 530 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-386-365-3

Query Match 67.3%; Score 1950; DB 7; Length 530;
Best Local Similarity 67.0%; Pred. No. 2e-178;
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Matches 366; Conservative 66; Mismatches 96; Indels 18; Gaps 7;
Qy 1 MMASKDPTNMDCTSGAGQLVPEANTAEPLSMPEVAGAAATAAGOVNMDPWIMNNY 60
Db 1 MMASKDPTSSVDGASGAGQLVPEVNASDPLAMPVAGSSAVATAGOVNPIDPWIIINF 60
Qy 61 VQAPQGEFTISPNNTPGDIILDLQGLPHLPFLSHLAQMYNGWGNMKVVKVLLAGNAFTA 120
Db 61 VQAPQGEFTISPNNTPGDIILDLQGLPHLPFLSHLAQMYNGWGNMKVVKVLLAGNAFTA 120
Qy 121 KIIISCIPPGFAAONISIAQATMPHVIADRVLEIEVPLEDVRNVLPHNND-NAPTM 179
Db 121 KIIIVSCIPPGFGSHNLIAQATLPHVIADRVLTLDPIEVPLEDVRNVLPHNNDNQOTM 180
Qy 180 RLVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSLFLVPPNVEQKTKPFSPVNLPL 239
Db 181 RLVCMLYTPLRTGGTG--DSFVAGRVMTCPSPDFSLFLVPPNVEQKTRPFTLPNLPL 238
Qy 240 NTLNSRVPSLIKSMVSRDHQWQFQNGRVTLDGOLGTTPTTSASOLCKIRGSVFHAN 299
Db 239 SSLSNSRAPLPISSMGISPDNVQSVQFQNGRCTLDGRLVGTTPVSLSHVAKIRGT---S 294
Qy 300 GNGVNLTELDGSPHAFESPAPIGFDPDLGCDWHMEASPTQFNTGDVQKINVKQESA 359
Db 295 NGTVINLTLDGTPHFPFEGPAPIGFDPDLGGCDWHN---MTQFGHSSQTDVDDTTPTD 351
Qy 360 FAPHLGTIQADGLSDVSVNTNMIKLGWVSPVSDGHRGDVDPWVIPRYGSTLTTEAAQLAP 419
Db 352 FVPHLGSIOANGIG---SGNVGVLSWISPPSHPSGQVDLWKIPNYGSSITEATHLAP 407
Qy 420 PIYPGFGAEIVFFMSDFPIAHGTNGLSVPCPTIQEFVTHFVNEQAPTRGEAALLHYLDP 479
Db 408 SYVPPGEGVLVFFMSKMP---GPGAYNLPCLLPQEIYISHLASEQAPTVGEAALLHYVDP 464
Qy 480 DTHRLNLFKLYPEGFMTCPVNSSGTGPQTLPIGVFVSVWSRFYQLKPVGTAGPA-C 538
Db 465 DTGRNLGEFKAYPDGFLTCVPGNGASSGQQQLPIGVFVSVWSRFYQLKPVGTASSARG 524
Qy 539 RLGIIR 544
Db 525 RLGLRR 530

RESULT 9
US-08-486-049-3
; Sequence 3, Application US/08486049
; GENERAL INFORMATION:
; APPLICANT: Estes, Mary K
; APPLICANT: Jiang, Xi
; APPLICANT: Graham, David Y
; TITLE OF INVENTION: Methods and Reagents to Detect and
; TITLE OF INVENTION: Characterize Norwalk and Related Viruses
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 801 Pennsylvania Ave., N.W.
; CITY: Washington, D.C.
; STATE:
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,049
; FILING DATE: June 7, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Davis, Peter
; REGISTRATION NUMBER: 36,119
; REFERENCE/DOCKET NUMBER: 311.023

```

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-662-0200
; TELEFAX: 202-662-4643
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 530 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-486-049-3
Query Match 67.3%; Score 1950; DB 8; Length 530;
Best Local Similarity 67.0%; Pred. No. 2e-176;
Matches 366; Conservative 66; Mismatches 96; Indels 18; Gaps 7;
Qy 1 MMASKDPTNMDCTSGAGQLVPEANTAEPLSMPEVAGAAATAAGOVNMDPWIMNNY 60
Db 1 MMASKDPTSSVDGASGAGQLVPEVNASDPLAMPVAGSSAVATAGOVNPIDPWIIINF 60
Qy 61 VQAPQGEFTISPNNTPGDIILDLQGLPHLPFLSHLAQMYNGWGNMKVVKVLLAGNAFTA 120
Db 61 VQAPQGEFTISPNNTPGDIILDLQGLPHLPFLSHLAQMYNGWGNMKVVKVLLAGNAFTA 120
Qy 121 KIIISCIPPGFAAONISIAQATMPHVIADRVLEIEVPLEDVRNVLPHNND-NAPTM 179
Db 121 KIIIVSCIPPGFGSHNLIAQATLPHVIADRVLTLDPIEVPLEDVRNVLPHNNDNQOTM 180
Qy 180 RLVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSLFLVPPNVEQKTKPFSPVNLPL 239
Db 181 RLVCMLYTPLRTGGTG--DSFVAGRVMTCPSPDFSLFLVPPNVEQKTRPFTLPNLPL 238
Qy 240 NTLNSRVPSLIKSMVSRDHQWQFQNGRVTLDGOLGTTPTTSASOLCKIRGSVFHAN 299
Db 239 SSLSNSRAPLPISSMGISPDNVQSVQFQNGRCTLDGRLVGTTPVSLSHVAKIRGT---S 294
Qy 300 GNGVNLTELDGSPHAFESPAPIGFDPDLGCDWHMEASPTQFNTGDVQKINVKQESA 359
Db 295 NGTVINLTLDGTPHFPFEGPAPIGFDPDLGGCDWHN---MTQFGHSSQTDVDDTTPTD 351
Qy 360 FAPHLGTIQADGLSDVSVNTNMIKLGWVSPVSDGHRGDVDPWVIPRYGSTLTTEAAQLAP 419
Db 352 FVPHLGSIOANGIG---SGNVGVLSWISPPSHPSGQVDLWKIPNYGSSITEATHLAP 407
Qy 420 PIYPGFGAEIVFFMSDFPIAHGTNGLSVPCPTIQEFVTHFVNEQAPTRGEAALLHYLDP 479
Db 408 SYVPPGEGVLVFFMSKMP---GPGAYNLPCLLPQEIYISHLASEQAPTVGEAALLHYVDP 464
Qy 480 DTHRLNLFKLYPEGFMTCPVNSSGTGPQTLPIGVFVSVWSRFYQLKPVGTAGPA-C 538
Db 465 DTGRNLGEFKAYPDGFLTCVPGNGASSGQQQLPIGVFVSVWSRFYQLKPVGTASSARG 524
Qy 539 RLGIIR 544
Db 525 RLGLRR 530

RESULT 10
US-09-926-799-2
; Sequence 2, Application US/09926799
; GENERAL INFORMATION:
; APPLICANT: TAKEDA, NAOKAZU
; APPLICANT: NATORI, KATSURO
; APPLICANT: MIYAMURA, TATSUO
; APPLICANT: KAMATA, KUNIO
; APPLICANT: SATO, TOSHINORI
; APPLICANT: SATO, SEIYA
; TITLE OF INVENTION: Detection kit for SRSV
; FILE REFERENCE: 217039US0XKPT
; CURRENT APPLICATION NUMBER: US/09/926,799
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: JP 11175928
; PRIOR FILING DATE: 1999-06-22

```



; PRIOR APPLICATION NUMBER: JP 11-175928  
; PRIOR FILING DATE: 1999-06-22  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 530  
; TYPE: PRT  
; ORGANISM: ARTIFICIAL SEQUENCE  
; FEATURE:  
; OTHER INFORMATION: SYNTHETIC PEPTIDE  
US-09-926-799-2

Query Match 66.9%; Score 1938; DB 23; Length 530;  
Best Local Similarity 67.0%; Pred. No. 2.9e-177;  
Matches 366; Conservative 63; Mismatches 99; Indels 18; Gaps 7;  
  
Qy 1 MMASKDAPTNNNDGTSAGAGQLVPEANTAEPIISMEDVAGAAATAAATAGOVNMIDPKIMNNY 60  
Db 1 MMASKDAPTSSVDGASGAGQLVPEVNASDPLAMDVAGSSTAVATAGQVNPIDPWIIINNF 60  
  
Qy 61 VQAPQGEFTISPNNTPGDILDLQLGPHLNPFLSLHAQMYNGWGNMKVKVLLAGNAFTA 120  
Db 61 VQAPQGEFTISPNNTPGGFDLSGLPHLNPFLSLHAQMYNGWGNMKVRLMAGNAFTA 120  
  
Qy 121 GKIIISCIPPGFAAONISIAQATMPHVIADRVRLIEVPLEDVRNVLFNND-NAPTM 179  
Db 121 GKIIIVSCIPPGFGSHNLTAQATLPHVIAIDRVRLIEVPLEDVRNVLFNHNDNRNQTM 180  
  
Qy 180 RLVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSEFLFLVPPNVEOKTRPFSVPLPL 239  
Db 181 RLVCMLYTPLRGGGTG--DSEFVAGRVMTCPSPDFSEFLFLVPPNVEOKTRPFLPLNPL 238  
  
Qy 240 NTLNSRVPSLIKSMVSRDHQMVQFONGRVTLTGQLOGTTPTSASOLCKIRGSVFHAN 299  
Db 239 SSLNSRAPLPSGNGISPDNVQSFQFONGRCTLGRLVGTTPVSLSHVAKIRGT----S 294  
  
Qy 300 GNGVNLTELGDSPIYHAFESAPIGFDLGECDHMEASPTQFNVTGNDVIKQINVKQESA 359  
Db 295 NGTVNLTELGDTGTPHPEFGAPIGFDLGGCDHMIN---MTQFGHSSQOTQVDVDTTPT 351  
  
Qy 360 FAPHLGTQADGLSDVSYNTNMIAKLGWSPVSDGHRGDVDVPWIPRYGSLTTEAAQALP 419  
Db 352 FVPHLGSIQANGIG---SGNVIIGVLSWSPSPHSGSQVDLWKIPNIGSSITEATHLAP 407  
  
Qy 420 PIYPGGEAIVFFMSDFPIAHGTNGLSVPCPTIPOEFVTHFVNEQAPRGEAALLHYLDP 479  
Db 408 SVYPPGCEVLVFFMSKIP---GPGAYSILPCLLPQEIYISHLASEQAPTVGEAALLHYVDP 464  
  
Qy 480 DTHRNGLGEKLYPEGFMTCPVNSSCTGPTQLPINGVVFVSVSRFYQLKPVGTAGPA-C 538  
Db 465 DTGRTLGEFKAYPDGFLTCVPNGASSGPQQLPINGVVFVSVSRFYQLKPVGTASSARG 524  
  
Qy 539 RLGIIR 544  
Db 525 RLGLRR 530

RESULT 11  
US-09-926-799-7  
; Sequence 7, Application US/09926799  
; GENERAL INFORMATION:  
; APPLICANT: TAKEDA, NAOKAZU  
; APPLICANT: NATORI, RATSURO  
; APPLICANT: MIYAMURA, TATSUO  
; APPLICANT: KAMATA, KUNIO  
; APPLICANT: SATO, TOSHINORI  
; APPLICANT: SATO, SEIYA  
; TITLE OF INVENTION: Detection kit for SRSV  
; FILE REFERENCE: 217039USOXPCT  
; CURRENT APPLICATION NUMBER: US/09/926.799  
; CURRENT FILING DATE: 2002-03-29  
; PRIOR APPLICATION NUMBER: JP 11175928  
; PRIOR FILING DATE: 1999-06-22

; PRIOR APPLICATION NUMBER: JP 11-175928  
; PRIOR FILING DATE: 1999-06-22  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 540  
; TYPE: PRT  
; ORGANISM: ARTIFICIAL SEQUENCE  
; FEATURE:  
; OTHER INFORMATION: SYNTHETIC PEPTIDE  
US-09-926-799-7

Query Match 42.3%; Score 1225; DB 23; Length 540;  
Best Local Similarity 46.7%; Pred. No. 2.2e-108;  
Matches 261; Conservative 89; Mismatches 173; Indels 36; Gaps 14;  
  
Qy 1 MMASKDAPTNNNDGTSAGAGQLVPEANTAEPIISMEDVAGAAATAAATAGOVNMIDPWIMNNY 60  
Db 1 MMASNDATPSSNDGAAG---LVPESNN-EAMALEPVVGASLAAPVGTQNTIIDPWITRNF 56  
  
Qy 61 VQAPQGEFTISPNNTPGDILDLQLGPHLNPFLSLHAQMYNGWGNMKVKVLLAGNAFTA 120  
Db 57 VQAPNGEFTVSPRNPCEILVNLLELGPENLPYLHLARMYNGYAGGMEVQVVLGNAFTA 116  
  
Qy 121 GKIIISCIPPGFAAONISIAQATMPHVIADRVRLIEVPLEDVRNVLFNH-NNDNAPTM 179  
Db 117 GKIIIFAAVPPYFPVENLSPSQITMPEPHVIDVRLLEPVLPMPPDVRSTLTFHFQKDEPKM 176  
  
Qy 180 RLVCMLYTPLRASGSSGTDPEVIAGRVLTCPSPDFSEFLFLVPPNVEOKTRPFSVPLPL 239  
Db 177 RLVAMLYTPLRNSG--SGDDVFTVSCRILTRPSPEFDFTYLVPPTVESKTKPTLPLVTL 234  
  
Qy 240 NTLNSRVPSLIKSMVSRDHQMVQFONGRVTLTGQLOGTTPTSASOLCKIRGSVFHAN 299  
Db 235 GELNSRPLSLDEMTSPNESIVVQPNQGRVTLDELGLTQLOACNCTCSRGKVTGQV 294  
  
Qy 300 GNGY----NLTELGDSPIYHAFES-PAPIGFPLD-GECDHMH-----BASPTQFNCTGD 347  
Db 295 PSEQHMWNLLEINLNGTQDPTDDVPAPLGVPDFAGEFVLSQRNRGESNPANRAHDAV 354  
  
Qy 348 VIKQINVKQESAFAPHLGTIQAD--GLSDVSYNTNMIAKLGWSPVSDGHRGDVDVPWIP 405  
Db 355 V-----ATVSDYTKPLGLVQIGTWNNDVNOPTKFTPIG-LNEVANGHR--FEQMTLP 406  
  
Qy 406 RYGSTLTEAAALAPPTYPGGEAIVFFMSDFPIAHGTNGLSVPCPTIPOEFVTHFVNEQA 465  
Db 407 RYSGALTLMNMLAPAVAPLFPGERLLFFRSYVPLKCGFNPALDCSVPGQEWQHFQESA 466  
  
Qy 466 PTRGEAALLHYLDPDTHRNGLGEKLYPEGFMTCPVNSSCTGPTQLPINGVVFVSVSRF 525  
Db 467 PSLGDVALVRYVNPDTGRVLFELAKLHKGGLTV--SSTSTGPPVVVPANGYFKFDSWVNF 524  
  
Qy 526 YOLKPVGTAGPACRLGIIR 544  
Db 525 YSLAPMGTGN-----GRRR 538

RESULT 12  
US-08-273-257-5  
; Sequence 5, Application US/08273257  
; GENERAL INFORMATION:  
; APPLICANT: LEW, Judy F.  
; APPLICANT: GREEN, Kim Y.  
; APPLICANT: VALDESUSO, Jose  
; TITLE OF INVENTION: Calicivirus capsid genes and their uses  
; NUMBER OF SEQUENCES: 36  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourie and Crew  
; STREET: Stuart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: US  
; ZIP: 94105-1493

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/273,257
; FILING DATE: 11-JUL-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 15280-209
; REFERENCE/DOCKET NUMBER: DHHS Ref. No. E-163-94/0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 548 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-273-257-5

```

```

Query Match 40.9%; Score 1184.5; DB 6; Length 548;
Best Local Similarity 46.4%; Pred. No. 1.8e-104;
Matches 262; Conservative 79; Mismatches 181; Indels 43; Gaps 15;

QY 1 MMASKD-APTNMDGTSGAGQLVPEANTAEPISEMPVAGATAATAAGVNMIDPWIMNN 59
DB 1 MKMASNDAAPSN---DGAACLVPEINN-EAMALPVGASAIAPLTGQQLIIDPWIMNN 55

QY 60 YVAPQGEFTTSPNPTPGDILFDLQGLPHLPFLSHLAQMYNGWGNKVKVLLAGNAFT 119
DB 56 YVAPGGEFTVSPRNSPGEVLLNLELGEINPYLAHLARMYNGYAGGEVQVVLGNAFT 115

QY 120 AGKIISICPPGFAAGNISIAQATMFPHVADVRVLEPIEVPLEDRVNLVFNHNDNAPT- 178
DB 116 AGKIIFAALPPNFPIDNLSAAQITMCPHVIVDVRQLEPINLPMPDVRNFFHYNGSDSR 175

QY 179 MRLVCMLYTPLRASGSSGTDPFVIAGRVLCPSDFSEFLVLPNVEQTKPFSPVNPPL 238
DB 176 LRLIAMLXTPLR---NNSGDDVFTVSCRVLTRPSDFSEFLVLPPTVESKTKPFTLPILT 233

QY 239 NLTLSNRVPSLIKSMVSRDHQMVQFQNGRVTLTGLOGTTPTSASOLCKIRGSVFHA 298
DB 234 ISEMSRFPVPIDSLHTSPTEINIVVQCNGRVTLTGELMGTTQLLPQICAFRGVLTTRS 293

QY 299 NGG-----NGY---NLTELDSGSPYHAFES-PAPIGFDDL-GECDWHMEASPTT 340
DB 294 TSASDQADTPTPLRFNYWHYHQLDNLNGTPYDPAEDIPGLGTPDFRGKV-----FGVA 348

QY 341 TQFNTGDTVTKQINVKQESA---FAPHLGTIOADGLSDVSNTNMIKLGWSPVSDG--H 395
DB 349 SQRNPDSTTRAHEAKVDITTSRGFTKLGSLTEITDSD-DFDQNQTKF---TPVGVGVND 404

QY 396 RGVDVDPWIPRYGSTLITEAAQLAPPIYPPGFGAEIVFFMSDFPIAHGTNGLSVPTIOE 455
DB 405 EAEFQWSLPDYSGQFTHMNLAPAVAPNFPGEQLLFFRSQLPSSGGRNGVLDCLVPOE 464

QY 456 VTHFVNEQAPTRGEAALHYLDPOTHRNGLGFEKLYPEGFMTCPVNSSGTGPTLPINGVF 515
DB 465 WQHFQESAPAQTOVALRVYNPDTRGVLFEEAKLHKLGFMTIAKN--GDSPTITVPPNGY 522

QY 516 FVFSVWSRFPYOLKPVGTAGPACRL 540
DB 523 FRFESVWNPFYTLAPMGTGNGRRRI 547

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RESULT 13  
 US-09-926-799-6  
 ; Sequence 6, Application US/09926799

```

; GENERAL INFORMATION:
; APPLICANT: TAKEDA, NAKAZU
; APPLICANT: NATORI, KATSURO
; APPLICANT: MIYAMURA, TATSUO
; APPLICANT: KAMATA, KUNIO
; APPLICANT: SATO, TOSHINORI
; APPLICANT: SATO, SEIYA
; TITLE OF INVENTION: Detection kit for SRSV
; FILE REFERENCE: 217039US0XPC
; CURRENT APPLICATION NUMBER: US/09/926,799
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: JP 11175928
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: JP 11-175928
; PRIOR FILING DATE: 1999-06-22
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 548
; TYPE: PRT
; ORGANISM: ARTIFICIAL SEQUENCE
; FEATURE:
; OTHER INFORMATION: SYNTHETIC PEPTIDE
; US-09-926-799-6

```

```

Query Match 40.7%; Score 1178.5; DB 23; Length 548;
Best Local Similarity 45.7%; Pred. No. 6.8e-104;
Matches 258; Conservative 82; Mismatches 183; Indels 41; Gaps 14;

QY 1 MMASKD-APTNMDGTSGAGQLVPEANTAEPISEMPVAGATAATAAGVNMIDPWIMNN 60
DB 1 MKMASNDAAPSN---LVPEINN-EAMALPVGASAIAPLTGQQLIIDPWIMNN 56

QY 61 VVAPQGEFTTSPNPTPGDILFDLQGLPHLPFLSHLAQMYNGWGNKVKVLLAGNAFT 120
DB 57 VVAPGGEFTVSPRNSPGEVLLNLELGEINPYLAHLARMYNGYAGGEVQVVLGNAFT 116

QY 121 GKIIISICPPGFAAGNISIAQATMFPHVADVRVLEPIEVPLEDRVNLVFNHNDNAPT-M 179
DB 117 GKIIIFAALPPNFPIDNLSAAQITMCPHVIVDVRQLEPINLPMPDVRNFFHYNGSDSRL 176

QY 180 RLVCMLYTPLRASGSSGTDPFVIAGRVLCPSDFSEFLVLPNVEQTKPFSPVNPPL 239
DB 177 LRLIAMLXTPLR---NNSGDDVFTVSCRVLTRPSDFSEFLVLPPTVESKTKPFTLPILT 234

QY 240 NLTLSNRVPSLIKSMVSRDHQMVQFQNGRVTLTGLOGTTPTSASOLCKIRGSVFHAN 299
DB 235 SEMSNRFPVPIESLHTSPTEINIVVQCNGRVTLTGELMGTTQLLPQICAFRGVLTTRST 294

QY 300 GG-----NGY---NLTELDSGSPYHAFES-PAPIGFDDL-GECDWHMEASPTT 341
DB 295 SRASDQADTPTPLRFNYWHYHQLDNLNGTPYDPAEDIPGLGTPDFRGKV-----FGVAS 349

QY 342 QFNTGDTVTKQINVKQESA---FAPHLGTIOADGLSDVSNTNMIKLGWSPVSDG--HR 396
DB 350 QRNLDSSTTRAHEAKVDITTAGRTFKLGSLTEITDSD-DFDQNQTKF---TPVGVGVND 405

QY 397 GDVDVDPWIPRYGSTLITEAAQLAPPIYPPGFGAEIVFFMSDFPIAHGTNGLSVPTIOE 456
DB 406 AEFQWSLPDYSGQFTHMNLAPAVAPNFPGEQLLFFRSQLPSSGGRNGVLDCLVPOE 465

QY 457 VTHFVNEQAPTRGEAALHYLDPOTHRNGLGFEKLYPEGFMTCPVNSSGTGPTLPINGVF 516
DB 466 WQHFQESAPAQTOVALRVYNPDTRGVLFEEAKLHKLGFMTIANN--GDSPTITVPPNGY 523

QY 517 FVFSVWSRFPYOLKPVGTAGPACRL 540
DB 524 FRFESVWNPFYTLAPMGTGNGRRRI 547

```

RESULT 14  
 US-08-273-257-11  
 ; Sequence 11, Application US/08273257

GENERAL INFORMATION:  
APPLICANT: LEW, Judy F.  
APPLICANT: GREEN, Kim Y.  
APPLICANT: VALDESUSO, Jose  
TITLE OF INVENTION: Calicivirus capsid genes and their uses  
NUMBER OF SEQUENCES: 36  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourie and Crew  
STREET: Steuart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/273,257  
FILING DATE: 11-JUL-1994  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Bastian, Kevin L.  
REGISTRATION NUMBER: 34,774  
REFERENCE/DOCKET NUMBER: 15280-209  
REFERENCE/DOCKET NUMBER: DHHS Ref. No. E-163-94/0  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 543-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 535 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-273-257-11

Query Match 40.6%; Score 1176.5; DB 6; Length 535;  
Best Local Similarity 45.8%; Pred. No. 1e-103;  
Matches 254; Conservative 88; Mismatches 181; Indels 31; Gaps 12;

Qy 1 MMASKDAPTNDGTSGAGQLVPEANTAPISMPEVAGAAATAAGVNMIDPWIMNNY 60  
Db 1 MMASNDAAAPSNDGAAG--LVPEYNN-ETMALEPVAGASIAAPLTGQNNVIDPWIMNF 56

Qy 61 VQAPGGETISPNTPGDIILDLQGLPHNPFSLHQAQNGWVGNMVKVLLAGNAFTA 120  
Db 57 VQAPNGEFTVSPRNSPGEILLNLELGPENLPFLAHLRMYNGYAGGVEQVLLAGNAFTA 116

Qy 121 GKIIISCIPPGFAAQNISIAQATMPHVIADRVRLPEIEVPLEDVRNVLPH-NNDNAPTM 179  
Db 117 GKLVAAPPPHLEPLNLSFGQITMPHVIIDVRLPEVLLPLPDVRNNEFFHYNQOPEPRM 176

Qy 180 RLVMCLYTPLRASGSSGTDPEFVIAGRVLTCPSPDFSEFLFLVPPNVEQKTKPFSVPLNPL 239  
Db 177 RLVMALYTPLRNSG--SGDDVETVSCRVLTRPSDFDENLVLPVPTVESKTKPTLPILTI 234

Qy 240 NTLNSRVPSLIKSMWVRDHQWQFONGRVTLTGLOGITPTTSASQCKIRGSVFHAN 299  
Db 235 GELTNSRFPVIDELYTSPNESLVQPQNGRCALDCELGTTQLLPATCSFRGRINQKV 294

Qy 300 GGNVY----LTLDGSPYHAFES-PAPICPDLGECDMHWEASPTTQFNGDVIKQ-- 351  
Db 294 VPDDHQNLQVNTNGTTPFDTEVPAPLTGPTDFLANIYGV----TSQRNPNNTCRAHD 349

Qy 352 -INVKQESAFAPHLGTIQADGLSDVSNTNMIAKLGWSPVSDGHRGVDWPIVRYGST 410  
Db 350 GVLATWSPKPKLGSVILGTWEESDLNQPTRE--TPVGLFNTDHFQWALPSYGR 406

Qy 411 LTEAAQLAPPYPPGFGGAIYVFFMSDFPIAHGTNGLSVPTCTIPQBEFVTHFVNEQAPTRGE 470  
Db 407 LTNMNLAPSVPLPPGQILFFRSHIPLKGGTSDGAIDCLLPQEWIQHFIQESAPATD 466

Qy 471 AALHYLDPDTHRNLCGEFKLYPEGEMTCVPNSSGTPQTLPINGVFVFWVSWSRFYQLKP 530  
Db 467 VALIRYNTPDTCRVLFELKLRHQGFITVA--NSGSRPIVVPNGYFRFDSWNNQFYS LAP 524

Qy 531 VGTAGPACRLGIRR 544  
Db 525 MGTGN-----GRRR 533

RESULT 15  
US-09-926-799-8  
Sequence 8, Application US/09926799  
GENERAL INFORMATION:  
APPLICANT: TAKEDA, NAKAKAZU  
APPLICANT: NATORI, KATSURO  
APPLICANT: MIYAMURA, TATSUO  
APPLICANT: KAMATA, KUNIO  
APPLICANT: SATO, TOSHINORI  
APPLICANT: SATO, SEIYA  
TITLE OF INVENTION: Detection kit for SRSV  
FILE REFERENCE: 217039US0XPCX  
CURRENT APPLICATION NUMBER: US/09/926,799  
CURRENT FILING DATE: 2002-03-29  
PRIOR APPLICATION NUMBER: JP 11175928  
PRIOR FILING DATE: 1999-06-22  
PRIOR APPLICATION NUMBER: JP 11-175928  
PRIOR FILING DATE: 1999-06-22  
NUMBER OF SEQ ID NOS: 34  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 8  
LENGTH: 535  
TYPE: PRT  
ORGANISM: ARTIFICIAL SEQUENCE  
FEATURE:  
OTHER INFORMATION: SYNTHETIC PEPTIDE  
US-09-926-799-8

Query Match 40.6%; Score 1174.5; DB 23; Length 535;  
Best Local Similarity 45.0%; Pred. No. 1.6e-103;  
Matches 251; Conservative 87; Mismatches 181; Indels 39; Gaps 13;

Qy 1 MMASKDAPTNDGTSGAGQLVPEANTAPISMPEVAGAAATAAGVNMIDPWIMNNY 60  
Db 1 MMASNDAAAPSNDGAAG--LVPEANN-ETMALEPVAGASIAAPLTGQNNIDPWIRLNF 56

Qy 61 VQAPGGETISPNTPGDIILDLQGLPHNPFSLHQAQNGWVGNMVKVLLAGNAFTA 120  
Db 57 VQAPNGEFTVSPRNSPGEILLNLELGPENLPFLAHLRMYNGYAGGVEQVLLAGNAFTA 116

Qy 121 GKIIISCIPPGFAAQNISIAQATMPHVIADRVRLPEIEVPLEDVRNVLPH-NNDNAPTM 179  
Db 117 GKLVAAPPPHLEPLNLSFGQITMPHVIIDVRLPEVLLPLPDVRNNEFFHYNQOPEPRM 176

Qy 180 RLVMCLYTPLRASGSSGTDPEFVIAGRVLTCPSPDFSEFLFLVPPNVEQKTKPFSVPLNPL 239  
Db 177 RLVMALYTPLRNSG--SGDDVETVSCRVLTRPSDFDENLVLPVPTVESKTKPTLPILTI 234

Qy 240 NTLNSRVPSLIKSMWVRDHQWQFONGRVTLTGLOGITPTTSASQCKIRGSVFHAN 299  
Db 235 GELTNSRFPVIDELYTSPNESLVQPQNGRCALDCELGTTQLLPATCSFRGRINQKV 294

Qy 300 GGNVY----NLTELDGSPYHAFES-PAPICGFPD-----LGECDHWEASPTTQFNTG 346  
Db 295 SCENHWNMQVNTNGTTPFDTEVPAPLTGPTDFSKLFCVLSQRD-HDNAC-----RSH 348

Qy 347 DVIKQINVKQESAFAPHLGTIQADGLSDVSNTNMIAKLGWSPVSDGHRGVDWPIVIR 406  
Db 349 DAVIATN---SAKPTPKLGAIOIGTWEEDDVHINQPTKE---TPVGLFENEFGNQWTLN 402

Qy 407 YGSTLITEAQAAPPYPPGFGGAIYVFFMSDFPIAHGTNGLSVPTCTIPQBEFVTHFVNEQAP 466  
Db 403 YSGALTNNMGLAPPVAPTPEGQILFFRSHIPLKGGVADPVIDCLLPQEWIQHFIQESAP 462

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Qy 467 TRGEALLHYLDPTHNLGEFKLYPEGFWTCVFNSSGTGPOTLPINGVFEVSVWSREY 526
Db 463 SQSDVALIRFTNPDGTGRVLFPAKLHRSYITVA--NTGSRPIVVPANGYFREDTWVNOFY 520
Qy 527 QLKPVGTAGPACRLGIRR 544
Db 521 SLAPWGTGN-----GRRR 533
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Search completed: March 10, 2003, 19:03:17  
Job time : 145 secs